

# Birds of lower Garhwal Himalayas: Dehra Dun valley and neighbouring hills

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Observations are presented on the birds of the Dehra Dun valley and neighbouring hills (between 77°35' and 78°15'E and between 30°04' and 30°45'N) from June 1982 to February 2000. A total of 377 species were sighted. These included 16 new records for the area, and 11 globally Near-threatened and 3 Vulnerable species. Resident species (306) were most prevalent in the area, and the majority of species preferred moist deciduous habitat (199). Specific threats to the habitats in the area are discussed. A complete annotated species list of the 514 species recorded in the Dehra Dun District (including northern areas between 30°45' and 31°N), and including species recorded by other authors in the area, is also given.

## INTRODUCTION

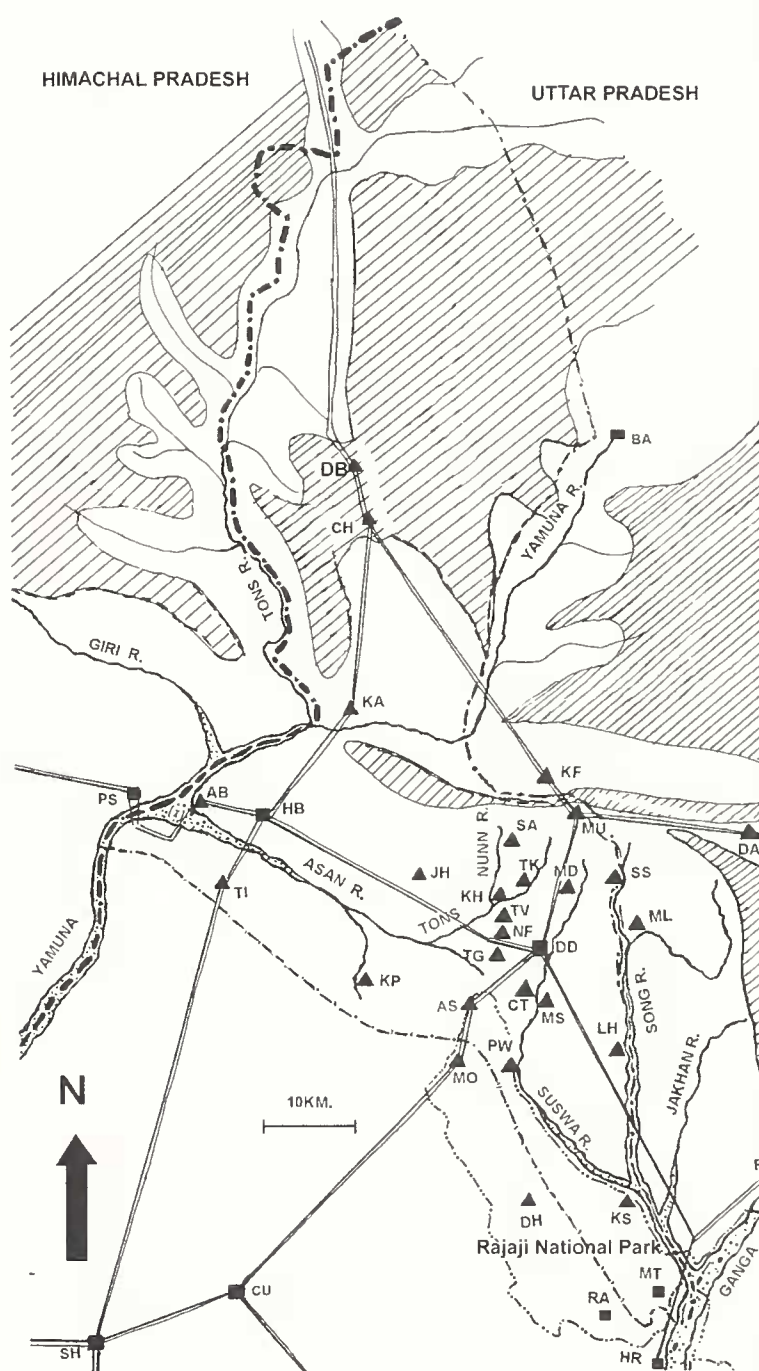
Osmaston (1935) was the first to publish a detailed account of the birds of Dehra Dun and adjacent hills, enumerating about 400 species from the area. He did not define the area precisely and it is clear from his descriptions that some species were recorded far out of Dehra Dun District, e.g. Snow Partridge *Lerwa lerwa*, Himalayan Snowcock *Tetraogallus himalayensis*, White-throated Dipper *Cinclus cinclus* and Grandala *Grandala coelicolor*. These species have not been included in the list for the District and, in addition, his records of European Nightjar *Caprimulgus europaeus* (Osmaston 1921, 1935) clearly refer to misidentified Grey Nightjars *C. indicus*. Since Osmaston's time, records have been published from some locations in the District: New Forest (Wright 1949 and 1955, George 1957 and 1962, Singh 1989 and 1999, and Mohan 1993 and 1997), Asan Barrage (Gandhi 1995a, Narang 1990, Singh 1991 and Tak *et al.* 1997), Chakarata (Srivastava 1977), Mussoorie (Fleming 1967 and 1977, Mohan 1992) and the northern aspect of the Shiwalik hills (Singh 1979 a and b). Tak (1995) provided a list of species for the Dehra Dun District but this included only 224 species.

The present study is based on observations recorded over a span of 16 years from 27 sites lying between 300 and 3000 m above mean sea level, spread all over the study area (Fig. 1).

## STUDY AREA

### Topography

The Dehra Dun valley lies between the west Himalayan mountain ranges in the north and the Shiwalik range in the south, at a mean altitude of 485 m. In the west it is bordered by the Yamuna river and in the east by the Ganga and Tons rivers. The valley is also well watered by perennial streams. The Asan river, fed by the Tons and Nunn riverlets, flows through western Dehra Dun into the Yamuna river. Likewise the Song, Suswa and Jakhan riverlets flow down eastwards into the Ganga river (Fig. 1).



**Figure 1.** Map of Dehra Dun valley and neighbouring hills along with birdwatching sites

## Vegetation

Forests cover 51-58% of the study area (Anon. 1995). Flat areas in the valley are occupied by irrigated agricultural land, scrub, tea gardens, orchards and habitation. However, slopes on both sides of the valley have pure and mixed moist deciduous forests, dominated by sal *Shorea robusta*. Mixed stands, however, have *Terminalia tomentosa*, *Adina cordifolia*, *Lagerstromia parviflora*, *Bombax ceiba*, *Mallotus philippinensis*, *Lannea coromandelica* as dominant species besides sal. Dry deciduous sal forests have *Anogeissus latifolia*, *Bauhinia variegata*, *B. racemosa*, *Butea monosperma* and *Terminalia bellirica* as the main species. Riverine and shrub areas are composed of *Dalbergia sissoo* and *Acacia catechu*. There are subtropical pine *Pinus roxburghii* forests, while moist temperate forests are dominated by broadleaved trees: *Quercus leucotrichophora*, *Q. dilatata*, *Q. semecarpifolia*, *Rhododendron arboreum*, and by conifers: *Cedrus deodara*, *Pinus wallichiana*, *Picea smithiana*, *Abies pindrow* and *A. spectabilis*.

## Climate

The area receives ca. 200 cm rainfall annually, mostly during the monsoon (June to September). The higher mountain ranges (above 2,000 m) receive snowfall during winter and, here, the temperature fluctuates from subzero to 23°C. However, in the valley and lower areas the temperature remains between -1° and 43.9°C from winter to summer.

## OBSERVATIONS AND DISCUSSION

A total of 377 species were recorded, including 11 categorized as globally Near-threatened and two as Vulnerable (Collar *et al.* 1994). Sixteen species were new records for the area, thus increasing the checklist for Dehra Dun District to 514 species (Appendix, which see for key to abbreviations). Some observations on birds in neighbouring areas (outside Dehra Dun District) are included in square brackets.

### Selected species of interest

#### Globally threatened and Near-threatened species recorded during the survey

**BLACK-BELLIED TERN** *Sterna acuticauda* (VU). Two birds were noted flying over the 'Yamuna canal' 700 m west of Asan Barrage, on 29 November 1997. Osmaston (1935) found it to be uncommon.

**PALLAS'S FISH EAGLE** *Haliaeetus leucoryphus* (VU). An occupied nest on a *Bombax ceiba* (25 m) tree was noted from 1984-1987 (AB). It was often observed preying on Ruddy Shelducks *Tadorna ferruginea* (AB). [A pair was also seen flying besides the Dholkand Rao riverlet in January 1991 (DH).] A few pairs always bred near the Yamuna, Ganges and Kansrao rivers and in the hills as far as Tiuni (77°50'E and 30°55'N) at 3,010 m north of Deoban (Osmaston 1935).

**WHITE-RUMPED VULTURE** *Gyps bengalensis* (LR: nt). The commonest vulture, with flocks of 90+ observed in the Doon Valley. Regular roosting sites were big trees of

*Shorea robusta*. (LH), *Ficus religiosa* (M), *Siris* and *Pterygota alata* (NF). Osmaston (1935) found it to be the commonest vulture in the valley. Probably breeding (Mohan 1997, NF). Congregations of up to 200 vultures were observed by George (1959). Wright (1955) noted it breeding on a banyan tree (TV); the act of mating was accompanied by loud braying noises.

**LONG-BILLED VULTURE** *Gyps indicus* (LR: nt). Two were noted roosting on a peepal *Ficus religiosa* tree, along with White-rumped Vultures and Egyptian Vultures *Neophron percnopterus*, in February 1990 (TG). Mohan (1997) recorded it in New Forest as a common, and probably breeding, resident.

**CINEREOUS VULTURE** *Aegypius monachus* (LR: nt). [A single sighting in January 1991 (DH), feeding on an animal carcass along with White-rumped Vultures and Large-billed Crows *Corvus macrorhynchos*.] Osmaston (1935) observed it in the higher hills and in the Doon valley, along with White-rumped Vultures, in winter.

**RED-HEADED VULTURE** *Sarcogyps calvus* (LR: nt). All three sightings: December 1997 (KH), [January 1991 (DH), June 1987 (KF)] were of 1-2 individuals flying or circling overhead or around cliffs (DH). Osmaston (1935) recorded it occasionally with White-rumped Vultures. George (1957) often observed 1-3 birds soaring overhead (NF). Wright (1949) also recorded it in summer (TV). Fleming (1967) recorded it occasionally at Mussoorie. Very rare (Mohan 1997).

**GREATER SPOTTED EAGLE** *Aquila clanga* (LR: nt). An adult was seen sitting on a tree on 18 January 1994 (AB).

**IMPERIAL EAGLE** *Aquila heliaca* (LR: nt). Recorded twice (NF), flying overhead on both occasions, including an adult on 28 February 1998. Osmaston (1935) recorded it as a winter visitor in the Doon valley.

**DARTER** *Anhinga m. melanogaster* (LR: nt). A single sighting on 18 July 1994 of a bird sitting on an *Ipomoea* stem on a small island (AB). Osmaston (1935) reported it to be fairly common in the Dehra Dun valley, fishing with Little Cormorants *Phalacrocorax niger*. One individual was also reported during 1994-1996 from Asan barrage (Tak *et al.* 1997).

**BLACK-HEADED IBIS** *Threskiornis melanocephalus* (LR: nt). Five individuals were observed sitting besides the Yamuna river on 7 May 1997 (AB).

**BLACK IBIS** *Pseudibis papillosa* (LR: nt). Two individuals were seen besides the Yamuna river on 22 February 1998, 1 km west of Asan Barrage. Tak *et al.* (1997) also reported five individuals (AB).

**PAINTED STORK** *Mycteria leucocephala* (LR: nt). A party (27) was noted from June to August 1996 and again in March-April 1998 (AB). Tak *et al.* (1997) observed 4-30 storks in 1994 at Asan barrage.

**ASIAN OPENBILL** *Anastomus oscitans* (LR: nt). Three individuals were seen feeding in shallow water on 7 May 1997 (AB). Tak *et al.* (1997) observed 20 in June 1997.



**SPOT-WINGED STARLING** *Saroglossa spiloptera* (LR: nt). Observed in March, June and July, 1985-1998 (NF). The noisy birds assembled on treetops in large flocks. A male died after a courtship fight with another male and was collected from the ground in June 1988 (NF). The species was also observed on flowering trees of *Grevillea robusta* and *Erythrina suberosa* in April, and then in July with young ones (Wright 1955). A summer visitor at New Forest. Flocks of up to 30 birds were seen on flowering trees in April, absent in May and flocks with young ones in June (George 1957). Common in April and July in New Forest in wooded areas (Mohan 1997).

### Previous significant records

**HIMALAYAN QUAIL** *Ophrysia superciliosa* (CR). Osmaston (1935) reported three specimens collected from Mussoorie in 1865, 1867 and 1868. Known only from the western Himalayas between 1,650-2,100 m in Jharipani above Dehra Dun, between Malsi Deer Park and below Mussoorie (Fig. 1). The last specimen was procured in 1876 from Mussoorie (Ali and Ripley 1989).

**WESTERN TRAGOPAN** *Tragopan melanocephalus* (VU). Osmaston (1935) reported it as a rare bird in the area, occurring in dense fir forests beyond the river Tons from 2,400 to 2,700 m. Fleming (1967) found it once at 2,240 m at Mussoorie.

**CHEER PHEASANT** *Catreus wallichii* (VU). Fairly common in hills beyond Chakarata in steep, grassy and rocky slopes from 2,400 to 2,700 m (Osmaston 1935). Fleming (1967) recorded it rarely from 2,130-2,470 m at Mussoorie. Srivastava (1977) reported it to be scarce in the Chakarata forest division.

**SIBERIAN CRANE** *Grus leucogeranus* (EN). George (1957) observed a flock of 25 birds flying over New Forest on 12 May 1955 but their identity was considered doubtful.

**WOOD SNIPE** *Gallinago nemoricola* (VU). A winter migrant in the Dehra Dun valley, occasionally seen in swampy patches near the forest edge (Osmaston 1935).

**INDIAN SKIMMER** *Rynchops albigollis* (VU). Scarce, occurring mixed with terns on the Ganga and Yamuna rivers (Osmaston 1935).

**LESSER FISH EAGLE** *Ichthyophaga humilis* (LR: nt). Osmaston (1935) observed them on the Yamuna and Tons rivers and on their larger tributaries in the hills.

**PALLID HARRIER** *Circus macrourus* (LR: nt). A common winter visitor in Dehra Dun (Osmaston 1935), and in the Tons valley in April and May (Wright 1955).

**RED-NECKED FALCON** *Falco chicquera* (LR: nt). Uncommon in Dehra Dun in open country (Osmaston 1935). Wright (1955) recorded it as a winter migrant in the Tons valley, arriving in December.

**LONG-BILLED THRUSH** *Zoothera monticola* (LR: nt). Osmaston (1935) reported it to be scarce, found in damp forest patches in summer in ravines from 2,400 to 2,700 m, at Deoban and Chakarata. Fleming (1967) noted it as an occasional migrant at Mussoorie.

### Other species of interest recorded during the survey

**GREYLAG GOOSE** *Anser anser* (SR<sub>3</sub>). Flocks of up to 240-250 individuals were recorded migrating over the Doon valley (NF) on 25 and 26 February 1986. The birds headed north, 75 to 100 m above the ground in a broad inverted V formation. Migration was observed in the morning (08h00), as well as in full moonlight (20h45). It was also observed at Asan barrage in March 1998 (20+) on passage.

**COMMON SHELDUCK** *Tadorna tadorna* (NR). A single male was observed resting on an island (AB) with Ruddy Shelducks *T. ferruginea* (500+) on 24 January 1998, and subsequently two were recorded on 19 April 1998 (AB).

**LONG-TAILED DUCK** *Clangula hyemalis* (NR). Two males were noted with Mallard *Anas platyrhynchos* and Common Pochard *Aythya ferina* in deep water from 15-23 January 1991 (AB).

**WHITE-BROWED PICULET** *Sasia ochracea* (NR). Recorded on *Jacaranda mimosifolia* trees (10 m+) in the company of Great Tits *Parus major* and leaf warblers *Phylloscopus* (TV) on 10 April 1997. Two piculets were also seen feeding on insects in a dead sal tree on 17 March 1997 (PW).

**GREY-HEADED WOODPECKER** *Picus canus* (SR<sub>3</sub>). A mating call heard in late May 1988 was described as a high-pitched and descending nasal note: *keaan-keaan-keaan-kean* (TV).

**ORIENTAL PIED HORNBILL** *Anthraceroceros albirostris* (SR<sub>1,2</sub>). A party of five were seen flying from the Kansrao forest rest house to trees across the railway line on 6 June 1982 (KS).

**GREAT HORNBILL** *Buceros bicornis* (NR). Three were noted on a tall (40 m) sal tree at Phanduwala forest rest house on 17 March 1998. White bars were noted in the centre of the black wings and the white tail had a broad black band. This sighting at 78°E is the westernmost record in the Himalayas - Ali and Ripley (1987) gave Kumaon (79°E) as the western limit.

**STORK-BILLED KINGFISHER** *Halcyon capensis* (SR<sub>1,2</sub>). One was observed sitting on a branch overhanging the Song river in May 1992 (LH).

**CHESTNUT-HEADED BEE-EATER** *Merops leschenaulti* (SR<sub>1</sub>). Seen along the Yamuna canal (AB) and also near sal forest edges and clearings (TI).

[**LESSER CUCKOO** *Cuculus poliocephalus* (SR<sub>1,2</sub>). A single bird was noted calling from a *Cedrus deodara* tree in a mixed ban oak *Quercus leucotrichophora* forest (DA) on 28 April 1999.]

[**GREEN-BILLED MALKOHA** *Phaenicophaeus tristis* (NR). A single sighting in an area of burnt forest on 7 June 1984 (MO).]

**RED-BREASTED PARAKEET** *Psittacula alexandri* (SR<sub>1</sub>). Large flocks (30+) were observed feeding on the fruits of *Melia*

*azadirach* in mid winter, December 1989 and 1997 (NF), along with Black Bulbuls *Hypsipetes leucocephalus*.

SPECKLED WOOD PIGEON *Columba hodgsonii* (SR<sub>4</sub>). Two individuals were noted resting on a broadleaved, evergreen tree (15 m+) in a mixed deciduous forest on 20 December 1986 (TV).

SPOTTED REDSHANK *Tringa erythropus* (NR). A single bird was seen feeding with seven Black-winged Stilts *Himantopus himantopus* on 24 January 1998 (AB).

WHISKERED TERN *Chlidonias hybridus* (SR<sub>1,2</sub>). Three flew over the reservoir and returned to rest on a small island on 19 April 1998 (AB).

BLACK-NECKED GREBE *Podiceps nigricollis* (NR). Four individuals were observed on 19 January 1991 and again on 24 January 1997 (AB).

BLACK-NECKED STORK *Ephippiorhynchus asiaticus* (SR<sub>1,2</sub>). A group (two adults and one immature) were seen feeding in marshes with seven Woolly-necked Storks *Ciconia episcopus* on 7 May 1997, with one individual again in April 1998 (AB).

HOODED PITTA *Pitta sordida* (SR<sub>1</sub>). Recorded from a lush green bush-covered hillside with steep slopes (TV), from July to September 1988 and in a mixed forest from 5 to 7 May 1998 (NF). Call a short, hollow, monotonous *quck, quck* repeated 4-35 times in a sequence, while sitting on a branch in the 'nullah' or under shade.

ASHY WOODSWALLOW *Artamus fuscus* (SR<sub>1</sub>). [Four birds were seen flying over the 'Dhokhand Rao' riverlet on 14 April 1993 (DH).] Subsequently, a single bird was noted circling over moist deciduous forest on 17 December 1987 (TV). Recorded previously by Osmaston (1919).

BROWN DIPPER *Cinclus pallasii* (SR<sub>1,2,4</sub>). Recorded along the small torrents of the Tons riverlet, bordered by steep rocky slopes and boulders, on 8 February 1998 (TK). [Also seen at Maldeota in January 1989.] Osmaston (1935) did not observe it in the valley.

SNOWY-BROWED FLYCATCHER *Ficedula hyperythra* (SR<sub>1,3</sub>). A single individual was seen in bamboo clumps *Bambusa* from 3 December 1984 to 11 January 1985 (NF). This sighting (77°59'E) is west of the limit of Kumaon given by Ali and Ripley (1989).

LITTLE PIED FLYCATCHER *Ficedula westermanni* (NR). It was observed during summer in the hills on deodar *Cedrus deodara* and oak trees (CH, MU, [DA]). The sighting at Chakarata (77°32'E) is far west of central Nepal (82°E), the limit given by Ali and Ripley (1987).

WHITE-RUMPED SHAMA *Copsychus malabaricus* (SR<sub>1</sub>). [A single sighting of a pair on 25 April 1991, at a water hole (MO).] Previously recorded by Bhatnagar and Misra (1972a).

HODGSON'S REDSTART *Phoenicurus hodgsoni* (NR). A single sighting on 26 January 1990 amongst boulders

on a dry bush covered hillside (KH). This sighting (77°59'E) is the westernmost record of the species - Ali and Ripley (1987) give 80°E in Nepal as the western limit.

VARIABLE WHEATEAR *Oenanthe picata* (SR<sub>1,2,3</sub>). A bird (dark phase '*opistholeuca*') observed in a dry riverbed and scrub on 3 and 8 January 1987 (KH).

ISABELLINE WHEATEAR *Oenanthe isabellina* (SR<sub>1,3</sub>). A single record in November 1987 of a male sitting on a bush in a dry fallow field, and along the Nunn riverlet (KH).

WINTER WREN *Troglodytes troglodytes* (SR<sub>1,2,4</sub>). A single sighting in December 1988 on a pile of damp wood and in bushes near a forest edge (NF).

MOUNTAIN BULBUL *Hypsipetes maclellandii* (SR<sub>1,2</sub>). A single bird was observed feeding on nectar of *Bombax ceiba* blossoms, and later feeding on insects on *Salix* trees planted beside the stream at Sulphur Springs, on 22 February 2000.

CHESTNUT-HEADED TESIA *Tesia castaneocoronata* (SR<sub>1,3</sub>). A single sighting on 11 April 1992 (TV), in moist mixed deciduous vegetation on a hillside (*Atharoda vasaca*, ferns) with boulders.

BROWNISH-FLANKED BUSH WARBLER *Cettia fortipes*. The eastern subspecies *fortipes* was seen during passage in spring (TV, NF). It was identified by its distinctive song: *whieee... cliwhichee*, different from that of *C. f. pallidus*.

BLYTH'S REED WARBLER *Acrocephalus dumetorum* (SR<sub>1</sub>). Found in bushes on passage in April, where it was detected by its alarm call (TV).

BOOTED WARBLER *Hippolais caligata* (NR). Observed during spring passage in small bushes and trees (KH).

COMMON CHIFFCHAFF *Phylloscopus collybita* (NR). Observed commonly on bushes besides the Nunn (KH) and Suswa (MS) riverlets during passage (February-March 1990, 1998) and also in winter.

DUSKY WARBLER *Phylloscopus fuscatus* (SR<sub>1</sub>). [A single bird, observed on the ground besides a small pool of water (2 m across) in a sal forest clearing, flicking its wings and showing its fulvous flanks and undertail coverts (January 1991, DH).] Recorded from AB (January 1998) [and DH in January 1991].

SULPHUR-BELLIED WARBLER *Phylloscopus griseolus* (SR<sub>1</sub>). Observed in spring in Doon valley (NF, TV) and during summer in the hills (MU). Song a melodious note, sung while creeping on a branch or trunk of *Shorea robusta*, on passage (NF).

BLYTH'S LEAF WARBLER *Phylloscopus reguloides* (NR). Observed in oak forest and also in alpine meadows (DB).

SCALY-BREASTED WREN BABBLER *Pnoepyga albiventer* (SR<sub>1,4</sub>). Two sightings, one in December 1988 and the other in March 1997. The first was of a bird hopping amongst bushes and boulders, on a hillside bordered



by rocky slopes and moist vegetation (ferns, *Athotoda vasaca*) (TV).

**TAWNY-BELLIED BABBLER** *Dumetia hyperythra* (NR). A single sighting on 20 November 1989 of two individuals, searching insects among dry leaves on the ground in a shady, moist, mixed deciduous, bush-covered hillside (TV). [Also seen among bushes, on the ground in January 1991 (DH).]

**STRIATED BABBLER** *Turdoides earlei* (NR). A noisy party of (4+) birds on tall grass in marshes, on 24 January 1991 (AB).

**LARGE GREY BABBLER** *Turdoides malcolmi* (NR). Noisy birds, often observed in dry scrub and fallow land (AB, KH, TG).

**SILVER-EARED MESIA** *Leiothrix argentauris* (NR). A small party (6+) observed on *Quercus leucotrichophora* trees in a damp, shady, hillside (MU) on 7 April 1995, along with a pair of White-browed Shrike Babblers (NR).

**RED-BILLED LEIOTHRIX** *Leiothrix lutea* (SR<sub>1</sub>). Observed in April 1992: one singing hidden in an open bush-covered hillside (TV), and a party (5+) chasing each other in bamboo clumps (TV).

[**WHISKERED YUHINA** *Yuhina flavicollis* (SR<sub>1,2</sub>). A pair was observed in a mixed hunting party of tits, treecreepers and leaf warblers catching insects in a moist, dense and mixed patch of ban oak trees (DA) on 29 April 1999.]

**BLACK-CHINNED YUHINA** *Yuhina nigrimenta* (NR). A bird was photographed on a deodar *Cedrus deodara* tree, in a mixed hunting party of Black-throated Tits *Aegithalos concinnus* and leaf warblers (Company Garden, MU).

**FIRE-TAILED SUNBIRD** *Aethopyga ignicauda* (SR<sub>4</sub>). Observed during winter on mistletoe *Loranthus longiflorus* and on bottlebrush *Callistemon* trees (Botanical garden, NF). These sightings from New Forest (670 m) are below the limit of 1,200 m given in Ali and Ripley (1989). [Also seen on *Rhododendron arboreum* blossoms in April 1984 (DA).]

[**EURASIAN TREE SPARROW** *Passer montanus* (NR). A few birds observed feeding on grains in a terraced field near a village, 2 km west of Dhanaulty in April 1984.] The only previous records from Uttar Pradesh are of an unconfirmed report of breeding at Naini Tal, Kumaon (Ali and Ripley 1987) and a listing of its occurrence, with no details, in Pithoragarh (Kumaon) (Tak 1995).

[**STREAKED WEAVER** *Ploceus manyar* (NR). A flock of 40+ birds feeding on millet crops in a field on the edge of Rajaji National Park, 5 km south of Mohand in April 1988.]

**RED-BROWED FINCH** *Callacanthus burtoni* (SR<sub>1</sub>). 9+ birds feeding on a mountain slope under *Cedrus deodara* trees along with Common Rosefinches in April 1996 (MU).

## Status Groups of Birds

The bird species in the study area have been categorized into various status groups on the basis of their seasonal pattern of migration (Fig. 2). Most of the species were residents (306), followed by winter migrants (40) and summer migrants (21). A few species of vagrants (4) and passage migrants (6) were also present. The breakdown of residents is: lower altitude residents (152), resident (but with altitudinal migration) (77), overall residents of the study area (47) and higher altitude residents (29).

## Habitat Preference

The habitat preferred by the majority of species was moist deciduous vegetation (199), followed by scrub (117), dry deciduous (92), aquatic (76), subtropical pine (73), moist temperate (68), building, rock, cliff (37), habitation (24) and subalpine (7). Preference for habitats amongst different 'status groups' indicated that resident species mostly preferred moist deciduous and scrub habitats. Winter migrants showed a preference for aquatic and scrub habitats, while summer migrants were found mainly in moist deciduous vegetation. However, a few species of vagrants inhabited scrub and rock country. Passage migrants were aquatic or preferred moist deciduous vegetation.

## Threats to the Area

Forested areas in both the valley and the hills are under threat from cattle grazing, lopping, cutting of grass, summer fires, weeds (*Ageratum conyzoides*, *Eupatorium glandulosum*, *Lantana camara*, *Parthenium hysterophorus*), illicit felling (*Acacia catechu*) and poaching of gamebirds. The flat areas with agriculture, orchards and tea gardens are being covered with concrete as the population increases in the valley. Some areas of Dehra Dun city also have air pollution from traffic and limestone kilns. Rivers are threatened by fishing, mining of beds for sand, gravel and stones, all of which have led to depletion of habitat for birds and aquatic fauna. The Song river is polluted with toxic discharge from a distillery. Limestone mining near Mussoorie and Sulphur Springs, although now on a small scale, was once prevalent on a large scale, covering an area of c. 720 ha (Mudgal and Mehta 1986). This has caused considerable soil erosion and landslides, making these mountain slopes completely barren. This area was also once habitat (1,650–2,000 m) for the now Critically Endangered (Collar *et al.* 1994) Himalayan Quail *Ophrysia superciliosa*. The wetland at Asan Barrage has problems with siltation; the prolonged period of water discharge required for cleaning it out; motor boats; weeds e.g. *Eichhornia crassipes*, *Ipomoea fistulosa* and *Typha elephantina*; and poaching of migratory waterbirds.

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REFERENCES

0. Ali, S. and Ripley, S. D. (1987) *Compact handbook of the birds of India and Pakistan*. Bombay: Oxford University Press.

1. Anon. (1995) *The state of forest report*. Dehra Dun: Forest Survey of India.

2. Baker, E. C. S. (1925a) (Remarks on the genus *Sturnopastor*.) *Bull. Brit. Orn. Club* 45: 103-104.

3. Baker, E. C. S. (1925b) (Descriptions of new races of sun-birds.) *Bull. Brit. Orn. Club* 46: 12-14.

4. Baker, E. C. S. (1926) (Remarks on Oriental woodpeckers, and descriptions of new races.) *Bull. Brit. Orn. Club* 46: 69-72.

5. Bhatnagar, R. K. and Misra, P. (1971-1972) Revised synopsis of birds of Dehra Dun and adjacent hills. *Cheetal* 14(2): 41-58, 14(4): 40-53.

6. Bhatnagar, R. K. and Misra, P. (1972a) Breeding birds of Dehra Dun and adjacent hills. *Cheetal* 15(1): 51-59.

7. Bhatnagar, R. K. and Misra, P. (1972b) Indian endemic bird species in Dehra Dun and adjacent hills. *Cheetal* 15(3): 34-42.

8. Blyth, E. (1843) Monthly report for December meeting, 1842, with addenda subsequently added. *J. Asiatic Soc. Bengal* 12: 931-1011.

9. Blyth, E. (1849) A supplemental note to the catalogue of the birds in the Asiatic Society's Museum. *J. Asiatic Soc. Bengal* 18: 800-821.

10. Brooks, W. E. (1875a) Notes upon a collection of birds made between Mussoori and Gangaotri in May 1874. *Stray Feathers* 3: 224-257.

11. Brooks, W. E. (1875b) Additional notes on birds collected between Mussoori and Gangaotri in May 1874. *Stray Feathers* 3: 275-278.

12. Burton, E. (1836) Characters of several birds from the Himalayan Mountains. *Proc. Comm. Zool. Soc. London* 3: 152-154.

13. Collar, N. J., Crosby, M. J. and Stattersfield, A. J. (1994) *Birds to watch 2: the world list of threatened birds*. Cambridge: BirdLife International (Conservation Series no.4).

14. Dharmakumarsinhji, K. S. (1956) The occurrence of the Pinkbreasted Parakeet *Psittacula alexandri* in Dehra Dun. *J. Bombay Nat. Hist. Soc.* 54: 185.

15. Field, F. (1925) Occurrence of the Nepal Kalij Pheasant (*G. leucomelanus*) at Mussoorie. *J. Bombay Nat. Hist. Soc.* 30: 917.

16. Fleming, R. L., Jr (1967) The birds of Mussoorie. U. P., India - a distributional and ecological study. Ph. D. thesis, Michigan State University, East Lansing, Michigan. (Diss. Abstr. 28B: 4346-4347)

17. Fleming, R. L., Sr. (1977) A list of Mussoorie birds. *Newsletter for Birdwatchers* 17(11): 14.

18. Gandhi, S. S. (1995a) Birds at Asan Baraj. *Newsletter for Birdwatchers* 35: 65-68.

19. Gandhi, S. S. (1995b) New and rare sighting of Black Stork near Dehra Dun (UP). *Newsletter for Birdwatchers* 35: 97-98.

20. George, J. (1957) Birds of New Forest. *Indian Forester* 83: 674-737.

21. George, J. (1959a) A composite swift-swallow nest. *J. Bombay Nat. Hist. Soc.* 56: 134.

22. George, J. (1959b) Artificial nests for swallows and swifts. *J. Bombay Nat. Hist. Soc.* 56: 135-137.

23. George, J. (1961a) Time of first morning call of the Himalayan Whistling Thrush. *Newsletter for Birdwatchers* 1(2): 2.

24. George, J. (1962a) Birds of New Forest, 1957-1962. *Indian Forester* 88: 442-444.

25. George, J. (1962b) Orange-flanked Bush Robin [*Erithacus cyanurus* (Pallas)] in Dehra Dun. *J. Bombay Nat. Hist. Soc.* 59: 290-291.

26. George, J. (1967) Redstarts in Dehra Dun. *Newsletter for Birdwatchers* 7(11): 7.

27. Gray, J. E., ed. (1846) *Gleanings from the menagerie and aviary at Knowsley Hall*. Aves 1.

28. Guha, R. (1967) Birds of the Forest Research Institute, Dehra Dun. *Newsletter for Birdwatchers* 7(10): 8-9.

29. Harington, H. H. (1913) (Description of new subspecies.) *Bull. Brit. Orn. Club* 33: 81-82.

30. Hartert, E. (1909-1912) *Die Vögel der paläarktischen Fauna*. Berlin: R. Friedlander.

31. Hume, A. O. (1869-1870) *My scrap book; or rough notes on Indian oology and ornithology*. Calcutta: Baptist Mission Press.

32. Hume, A. O. (1873) Novelties. *Stray Feathers* 1: 1-19.

33. Lamba, B. S. (1975) *Hirundo smithii* nesting in a residential house at Dehra Dun. *Cheetal* 16(4): 54.

34. Lamba, B. S. and Garg, G. K. (1977) Altitudinal migration of Rufous-bellied Woodpecker, *Hypopicus hyperythrus* (Vigors). *Newsl. Zool. Surv. India* 3(5): 297-298.

35. Lamba, B. S. and Narang, M. L. (1977) Occurrence of Brown Shrike, *Lanius cristatus cristatus* Linnaeus near Dehra Dun (U. P.). *J. Bombay Nat. Hist. Soc.* 74: 174.

36. Lamba, B. S. and Tyagi, A. K. (1975a) Incubation period of Common Myna, *Acridotheres tristis*. *Newsl. Zool. Surv. India* 1: 47-48.

37. Lamba, B. S. and Tyagi, A. K. (1975b) Incubation period in Northern Spotted Owllet *Athene brama indica* (Franklin). *Newsl. Zool. Surv. India* 2(4): 128-129.

38. Lavkumar, K. S. (1956) The occurrence of the Pinkbreasted Parakeet (*Psittacula alexandri*) in Dehra Dun. *J. Bombay Nat. Hist. Soc.* 54: 185.

39. Mathur, H. N. (1967) (Letter about birds at Dehra Dun and Rajpur.) *Newsletter for Birdwatchers* 7(10): 8.

40. Maudgal, S. and Mehta, R. (1986) Reclamation of abandoned limestone mines. A case study. *Indo British workshop on land reclamation*. I.N.S.A. New Delhi, March 19-21, 1986.

41. Meinertzhagen, R. (1924) (Remarks on the Yellow-naped Woodpecker (*Picus chlorolophus*) with description of several new races.) *Bull. Brit. Orn. Club* 44: 53-57.

42. Mohan, D. (1989) Falcated Teal in Dehra Dun. *Newsletter for Birdwatchers* 29(5 & 6): 9.

43. Mohan, D. (1992) Birds of Mussoorie. *Newsletter for Birdwatchers* 32(3 & 4): 4-5.

44. Mohan, D. (1993) Birds of New Forest: new additions. *Indian Forester* 119: 498-503.

45. Mohan, D. (1997) Birds of New Forest, Dehra Dun, India. *Forktail* 12: 19-30.

46. Mohan, D. and Chellam, R. (1991) New call record of Greenbreasted Pitta *Pitta sordida* (P. L. S. Muller) in Dehra Dun, Uttar Pradesh. *J. Bombay Nat. Hist. Soc.* 87: 453-454.

47. Mohan, D., Rai, N. D. and Singh, A. P. (1992) Longtailed Duck or Old Squaw *Clangula hyemalis* (Linn.) in Dehra Dun, Uttar Pradesh. *J. Bombay Nat. Hist. Soc.* 89: 247.

48. Narang, M. L. (1990) Migratory water birds of Dhalipur Lake near Dehra Dun (U.P.). *Indian Journal of Forestry* 13 (1): 63-64.

49. Narang, M. L. and Lamba, B. S. (1976) On the feeding-time and feeding-area preference of Indian Pied Myna, *Sturnus contra* Linn. *Newsl. Zool. Surv. India* 2(3): 83-86.

50. Narang, M. L. and Lamba, B. S. (1981) Food of Greenshank, *Tringa nebularia* (Gunnerus) around Dehra Dun (U.P.). *Cheetal* 23(2): 13-17.

51. Narang, M. L. and Lamba, B. S. (1984) A contribution to the food habits of some Indian mynas (Aves). *Rec. Zool. Surv. India, Misc. Publ. Occ. Paper* 44: 90 pp.

52. Narang, M. L., Tyagi, A. K. and Lamba, B. S. (1980) A contribution to the ecology of Indian Pied Myna *Sturnus contra contra* Linnaeus. *J. Bombay Nat. Hist. Soc.* 75(Suppl.): 1157-1177.

53. Navarro, A. (1964) A visit to the land of the fork-tails, redstarts and dippers. *Newsletter for Birdwatchers* 4(1): 3-5.

54. Osmaston, B. B. (1897) Birds' nesting in the Tons valley. *J. Bombay Nat. Hist. Soc.* 11: 64-72, 468-473.

55. Osmaston, B. B. (1901) Birds' nesting in the Tons valley. *J. Bombay Nat. Hist. Soc.* 13: 542.

56. Osmaston, B. B. (1903) The Himalayan Nutcracker (*Nucifraga hemispila*). *J. Bombay Nat. Hist. Soc.* 14: 818-819.

57. Osmaston, B. B. (1916a) The Pied Crested Cuckoo (*Coccyzus jacobinus*). *J. Bombay Nat. Hist. Soc.* 24: 821-822.

58. Osmaston, B. B. (1916b) Breeding of the Banded Crake (*Rallina superciliosa*). *J. Bombay Nat. Hist. Soc.* 24: 824.

59. Osmaston, B. B. (1918) Further notes on birds nesting in the Tons valley. *J. Bombay Nat. Hist. Soc.* 25: 493-495.

60. Osmaston, B. B. (1919) Supplementary notes on some Indian birds. *J. Bombay Nat. Hist. Soc.* 26: 424-429.

61. Osmaston, B. B. (1921) Further notes on Indian nightjars. *J. Bombay Nat. Hist. Soc.* 27: 948-949.



62. Osmaston, B. B. (1922) Predaceous habit of the Common King Crow. *J. Bombay Nat. Hist. Soc.* 28: 546.

63. Osmaston, B. B. (1924) Nidification of the Western Spotted Babbler (*P. ruficeps jonesi*). *J. Bombay Nat. Hist. Soc.* 29: 1053-1054.

64. Osmaston, B. B. (1935) Birds of Dehra Dun and adjacent hills. *Indian Military Acad. Jour. Supplement*.

65. Osmaston, B. B. (1977) *Wild life and adventures in Indian forests from diaries of B. B. Osmaston C.I.E.* U.K.: G. H. Osmaston private publication.

66. Parikh, V. (1967a) Birdwatching at Dehra Dun and Hardwar. *Newsletter for Birdwatchers* 7(9): 8.

67. Parikh, V. (1967b) Redstarts at Dehra Dun. *Newsletter for Birdwatchers* 7(11): 13.

68. Peile, H. D. (1914) Nest of the Long-tailed Broadbill on electric light wire. *J. Bombay Nat. Hist. Soc.* 23: 360-361.

69. Rattray, R. H. (1897a) Notes on nests taken from March to June at Kohat and Mussooree, Northwestern Provinces. *J. Bombay Nat. Hist. Soc.* 10: 628-630.

70. Rattray, R. H. (1897b) Nesting of the Little Forktail (*Microcichla scouleri*). *J. Bombay Nat. Hist. Soc.* 11: 334.

71. Royle, J. F. (1839-1840) *Illustrations of botany and natural history of the Himalayan Mountains*. 2 vols.

72. Singh, A. P. (1989) Flycatchers of New Forest, Dehra Dun. Uttar Pradesh, India. *Cheetal* 30(1-2): 1-7.

73. Singh, A. P. (1991) Sighting of Longtail or Old Squaw Duck after 52 years in India. *Newsletter for Birdwatchers* 31(3-4): 9.

74. Singh, A. P. (1999) Birds of New Forest Dehra Dun: recent sightings. *Indian Forester* 125:1035-1039.

75. Singh, K. N. (1979a) *Working Plan for the West Dehra Dun Forest Division, U. P.* (1979-80 to 1988-89) Vol. 1.

76. Singh, K. N. (1979b) *Working Plan for the East Dehra Dun Forest Division, U. P.* (1979-80 to 1988-89) Vol. 1.

77. Singh, R. D. (1967) 'Murghi' in Dehra Dun and Saharanpur Forest Divisions. *Cheetal* 9(2): 65-67.

78. Srivastava, P. C. (1977) *Working Plan for the Chakarata Forest Division, Tehri Circle U. P.* (1977-78 to 1986-87), Parts 1 and 11.

79. Tak, P. C. (1995) Aves. Pp. 169-199 in A. K. Ghosh, ed. *Fauna of western Himalaya*. Part 1. Uttar Pradesh. Calcutta: Zoological Survey of India.

80. Tak, P. C., Sati, J. P. and Kumar, A. (1997) Waterfowl potential of Asan reservoir (Dehra Dun valley, India). *Zoologie* 5(2): 111-132.

81. Tytler, R. C. (1868) Notes on the birds observed during a march from Simla to Mussoorie. *Ibis* (2)4: 190-203.

82. Vyas, S. (1970) Birds of Mussoorie. *Newsletter for Birdwatchers* 10(1): 4-6.

83. Whistler, H. (1943) A new race of the Indian Red-billed Leiothrix. *Bull. Brit. Orn. Club* 63: 62.

84. Whistler, H. (1949) *Popular handbook of Indian birds*. London: Gurney and Jackson.

85. Wright, M. D. (1949) A bird count in Dehra Dun. *J. Bombay Nat. Hist. Soc.* 48: 570-572.

86. Wright, M. D. (1955) Notes on the birds of a selected area of Dehra Dun. June 1946 to December 1950. *J. Bombay Nat. Hist. Soc.* 54: 627-662.

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APPENDIX

Key for Appendix		ABUNDANCE	
THREAT CATEGORIES		C	Common
(CR)	Critically endangered	F	Fairly common
(EN)	Endangered	U	Uncommon
(VU)	Vulnerable	R	Rare
(LR: nt)	Low risk (near-threatened)	STATUS	
HABITATS		PM	Passage migrant
AQ	Aquatic	RAM	Resident, altitudinal migrant
B	Building	RL	Lower altitude resident
C	Cliff	RO	Widespread resident
DD	Dry deciduous	RU	Higher altitude resident
HB	Habitation	SM	Summer migrant
MT	Moist temperate	VG	Vagrant
MD	Moist-deciduous	WM	Winter migrant
R	Rock	Significance of sightings	
SA	Subalpine	NR =	New record (no previous record from study area).
SC	Scrub	SR =	Significant record.
SP	Subtropical pine	SR <sub>1</sub>	Only one/two sightings before.
		SR <sub>2</sub>	Recorded after a long time
		SR <sub>3</sub>	Recorded away from known distributional range.
		SR <sub>4</sub>	Recorded away from known altitudinal range.
		SR <sub>5</sub>	New/rare observations about behaviour /habit.

Under column “previous records”, numbers refer to those given in the References.

Birdwatching sites				
Code	Site	Altitude (m)	Habitat	Protection
Dehra Dun District				
AB	Asan Barrage	402	AQ, (B), SC	UP
AS	Asarori	700	MD	NP, RF
CH	Chakarata	2185-2800	MT	RF
CT	Clement Town Tank	670	AQ	UP
DB	Deoban	2860-3000	MT, SA	RF
JH	Jhajra	650	MD	RF
KA	Kalsi	480-850	AQ, MD, SC	RF
KH	Khaddar	610	AQ, SC	UP
KP	Karva Pani	700	AQ, MD	RF
KS	Kansrao	585	AQ, MD	NP
LH	Lachhiwala	580	AQ, MD, SC	NP
MD	Malsi Deer Park	850-900	MD	RF
MS	Mathurawala Swamp	670	AQ, SC	UP
MU	Mussooree	2266	C, HB, MT, SC	RF
NF	New Forest	670	(AQ), (B), DD, HB, MD, SC, (SP)	RF
PW	Phanduwala	670	MD	NP
SD	Santala Devi	700-900	AQ, MD, SC	RF
SS	Sulphur Springs	750	AQ, C, DD, R, SC	RF, U
TG	Tea Garden	650	(DD), MD, SC	UP
TI	Timli	600-647	MD, SC	RF
TK	Tapkeshwar	660	AQ, C, MD	UP
TV	Tons Valley Forest	615-670	C, MD, R	RF
UB	Ubiquitous	300-3000		
Neighbouring areas				
DA	Dhanaulty	2580	MT	RF
DH	Dholkhand	500~730	AQ, C, DD, MD, SC, SP	NP
KF	Kampty Falls	1219	AQ, SP	RF
ML	Maldeota	750-1050	C, DD, MD, R, SC	RF, UP
MO	Mohand	300-447	DD, MD, SC, SP	NP, RF

NP = National Park  
RF = Reserved Forest  
UP = Unprotected  
( ) = Planted; Artificial



APPENDIX

Bird species recorded during the survey and other records from Dehra Dun District

[ ] = records from neighbouring districts

	Locations	Habitat	Abundance	Status	Previous records
CHUKAR <i>Alectoris chukar</i>					5, 6, 16, 64, 78, 79
BLACK FRANCOLIN <i>Francolinus francolinus</i>	KA, SA, [DH]	MD, SC	F	R	5, 10, 16, 20, 24, 43, 45, 64, 75, 76, 78, 79, 82, 86
GREY FRANCOLIN <i>Francolinus pondicerianus</i>	KH, NF, [DH, MO]	DD, SC	F	RL	5, 6, 20, 45, 64, 79, 80, 85, 86
HILL PARTRIDGE <i>Arborophila torqueola</i>					5, 6, 16, 64, 75, 76, 79
COMMON QUAIL <i>Coturnix coturnix</i>					5, 6, 64, 75, 76, 79
RAIN QUAIL <i>Coturnix coromandelica</i>					5, 6, 64, 75, 76, 79
BLUE-BREASTED QUAIL <i>Coturnix chinensis</i>					5, 64, 79
JUNGLE BUSH QUAIL <i>Perdicula asiatica</i>	KH, NF, [MO]	DD, MD, SC	C	RL	5, 6, 64, 74, 75, 76, 79, 85, 86
HIMALAYAN QUAIL <i>Ophrysia superciliosa</i>					5, 27, 64, 78
WESTERN TRAGOPAN <i>Tragopan melanocephalus</i>					16, 64, 79
KOKLASS PHEASANT <i>Pucrasia macrolopha</i>	CH, [DA]	MT	U	RU	5, 16, 64, 65, 78, 79
HIMALAYAN MONAL <i>Lophophorus impejanus</i>					5, 16, 64, 78, 79, 81
RED JUNGLEFOWL <i>Gallus gallus</i>	UB	DD, MD	F	RL	5, 6, 16, 20, 45, 64, 77, 79, 85, 86
KALIJ PHEASANT <i>Lophura leucomelanos</i>	CH, MU, [DH, MO]	DD, MD, MT, SP	F	RO	5, 6, 15, 16, 20, 43, 45, 64, 65, 72, 75, 76, 77, 78, 79, 82, 86
CHEER PHEASANT <i>Catreus wallichii</i>					5, 16, 64, 78, 79
INDIAN PEAFOWL <i>Pavo cristatus</i>	KP, KS, TI, [DH, MO]	DD, MD, SC	F	RL	5, 6, 64, 75, 76, 77, 78, 79, 86
LESSER WHISTLING-DUCK <i>Dendrocygna javanica</i>					5, 64, 79
GREYLAG GOOSE <i>Anser anser</i>	NF	AQ	U	PM	5, 64, 74, 79, 80
BAR-HEADED GOOSE <i>Anser indicus</i>	AB	AQ	U	PM	5, 64, 75, 79, 80
RUDDY SHELDUCK <i>Tadorna ferruginea</i>	AB	AQ	C	WM	5, 18, 48, 64, 75, 76, 79, 80
COMMON SHELDUCK <i>Tadorna tadorna</i>	AB	AQ	R	WM	
COMB DUCK <i>Sarkidiornis melanotos</i>					78
COTTON PYGMY-GOOSE <i>Nettapus cormandelianus</i>					5, 48, 64, 78, 79, 80
GADWALL <i>Anas strepera</i>	AB	AQ	U	WM	5, 18, 64, 79, 80
FALCATED DUCK <i>Anas falcata</i>					42, 80
EURASIAN WIGEON <i>Anas penelope</i>	AB	AQ	F	WM	5, 18, 64, 79, 80
MALLARD <i>Anas platyrhynchos</i>	AB	AQ	F	WM	5, 18, 48, 64, 65, 79, 80
SPOT-BILLED DUCK <i>Anas poecilorhyncha</i>	AB	AQ	F	RL	5, 64, 78, 79, 80
NORTHERN SHOVELER <i>Anas clypeata</i>	AB	AQ	F	WM	5, 18, 64, 79, 80
NORTHERN PINTAIL <i>Anas acuta</i>	AB	AQ	U	WM	5, 18, 48, 64, 75, 76, 79, 80
GARGANEY <i>Anas querquedula</i>	AB	AQ	U	PM	5, 64, 79
COMMON TEAL <i>Anas crecca</i>	AB	AQ	C	WM	5, 20, 45, 64, 75, 76, 79, 80, 86
RED-CRESTED POCHARD <i>Rhodonessa rufina</i>	AB	AQ	C	WM	5, 18, 48, 64, 75, 76, 79, 80

	Locations	Habitat	Abundance	Status	Previous records
COMMON POCHARD <i>Aythya ferina</i>	AB	AQ	C	WM	5, 18, 48, 64, 75, 76, 79, 80
FERRUGINOUS POCHARD <i>Aythya nyroca</i>	AB	AQ	U	WM	5, 64, 79
TUFTED DUCK <i>Aythya fuligula</i>	AB	AQ	U	WM	18, 48, 80
LONG-TAILED DUCK <i>Clangula hyemalis</i>	AB	AQ	R	WM	47, 73, 75
COMMON MERGANSER <i>Mergus merganser</i>					5, 64, 79
SMALL BUTTONQUAIL <i>Turnix sylvatica</i>	KH	MD, SC	U	RL	5, 6, 20, 45, 79, 85, 86
BARRED BUTTONQUAIL <i>Turnix suscitator</i>					78
EURASIAN WRYNECK <i>Jynx torquilla</i>	KH, [DH]	DD, SC	U	WM	16, 20, 45, 64, 85, 86
SPECKLED PICULET <i>Picumnus innominatus</i>	TV	MD	U	RO	16, 44, 45
WHITE-BROWED PICULET <i>Sasia ochracea</i>	PW, TV	MD	R	RL	74
BROWN-CAPPED PYGMY WOODPECKER <i>Dendrocopos nanus</i>					6, 64, 79
GREY-CAPPED PYGMY WOODPECKER <i>Dendrocopos canicapillus</i>	NF, TI, [DH]	DD, MD	C	RL	44, 45, 64, 79
BROWN-FRONTED WOODPECKER <i>Dendrocopos auriceps</i>	NF, SS, [DH]	DD, MD, MT, SP	U	RU	16, 20, 45, 64, 75, 76, 78, 79, 82, 86
FULVOUS-BREASTED WOODPECKER <i>Dendrocopos macei</i>	NF, TI	MD, SP	F	RO	44, 45
YELLOW-CROWNED WOODPECKER <i>Dendrocopos mahrattensis</i>					6
RUFIOUS-BELLIED WOODPECKER <i>Dendrocopos hyperythrus</i>	CH	MT	F	RU	16, 34, 64, 79
HIMALAYAN WOODPECKER <i>Dendrocopos himalayensis</i>	CH	MT	F	RU	16, 43, 64, 78, 79, 82
RUFIOUS WOODPECKER <i>Celeus brachyurus</i>	NF, TV	MD	U	RL	6, 64, 74, 79
LESSER YELLOWNAPE <i>Picus chlorolophus</i>	NF, TI	MD	U	RO	16, 41, 44, 45, 79, 82
GREATER YELLOWNAPE <i>Picus flavinucha</i>					64, 79
STREAK-THROATED WOODPECKER <i>Picus xanthopygaeus</i>	NF, [DH]	MD	U	RL	4, 6, 44, 45, 64, 79
SCALY-BELLIED WOODPECKER <i>Picus squamatus</i>	CH, NF, [DH]	MD, MT	U	RO	16, 43, 64, 74, 79, 82
GREY-HEADED WOODPECKER <i>Picus canus</i>	KP, NF, TI	MD	F	RO	16, 43, 44, 45, 64, 82
HIMALAYAN FLAMEBACK <i>Dinopium shorii</i>	KP	MD	U	RL	64
BLACK-RUMPED FLAMEBACK <i>Dinopium benghalense</i>	UB	DD, MD, SP	C	RL	6, 20, 45, 64, 78, 79, 85, 86
GREATER FLAMEBACK <i>Chrysocolaptes lucidus</i>	JH, NF, TV	MD	U	RL	20, 45, 79, 86
GREAT BARBET <i>Megalaima virens</i>	CH, MU, NF, TV, [DA]	MD, MT, SP	F	RAM	16, 20, 43, 45, 64, 78, 79, 82, 86
BROWN-HEADED BARBET <i>Megalaima zeylanica</i>	UB	DD, MD, SP	C	RL	18, 20, 45, 64, 79, 85, 86
LINEATED BARBET <i>Megalaima lineata</i>	NF	DD, MD	U	RL	18, 44, 45
BLUE-THROATED BARBET <i>Megalaima asiatica</i>	NF, TI	MD, SP	F	RO	16, 45, 79, 81, 86
COPPERSMITH BARBET <i>Megalaima haemacephala</i>	UB	DD, MD, SP	C	RL	18, 20, 45, 64, 79, 85, 86
INDIAN GREY HORNBILL <i>Ocyeros birostris</i>	KP, NF, TI, TV, [DH, MO]	DD, MD	C	RL	6, 18, 20, 45, 64, 75, 76, 78, 79, 85, 86
ORIENTAL PIED HORNBILL <i>Anthracoceros albirostris</i>	KS	MD	U	RL	9, 64, 79
GREAT HORNBILL <i>Buceros bicornis</i>	PW	MD	R	RL	
COMMON HOOPOE <i>Upupa epops</i>	UB	DD, MD, SC, SP	C	RL	6, 16, 18, 20, 43, 45, 64, 78, 79, 81, 82, 85, 86



	Locations	Habitat	Abundance	Status	Previous records
INDIAN ROLLER <i>Coracias benghalensis</i>	UB	DD, MD, SC, SP	F	RL	6, 18, 20, 45, 64, 79, 85, 86
DOLLARBIRD <i>Eurystomus orientalis</i>	NF	MD, SP	R	RL	6, 44, 45
COMMON KINGFISHER <i>Alcedo atthis</i>	KH, KP, LH, MS, SS	AQ, MD, R	F	RL	6, 16, 18, 20, 45, 64, 65, 79, 82, 85, 86
STORK-BILLED KINGFISHER <i>Halcyon capensis</i>	LH	AQ, MD	R	RL	64, 79
WHITE-THROATED KINGFISHER <i>Halcyon smyrnensis</i>	UB	AQ, MD, R	C	RL	6, 18, 20, 45, 64, 79, 80, 85, 86
CRESTED KINGFISHER <i>Megaceryle lugubris</i>	AB, SA, [ML]	AQ, MD, R	U	RL	6, 45, 78, 79, 81
PIED KINGFISHER <i>Ceryle rudis</i>	AB, KH, MS	AQ, MD, R	F	RL	18, 20, 45, 64, 78, 79, 85, 86
BLUE-BEARDED BEE-EATER <i>Nyctyornis athertonii</i>	DD, NF, TV, [ML]	MD	F	RL	20, 45, 64, 78, 79, 85, 86
GREEN BEE-EATER <i>Merops orientalis</i>	UB	DD, SC	C	RL	6, 18, 20, 45, 64, 79, 85, 86
BLUE-CHEEKED BEE-EATER <i>Merops persicus</i>					64, 79
BLUE-TAILED BEE-EATER <i>Merops philippinus</i>	NF, TI, [DH]	DD, MD, SC	F	RL	6, 20, 45, 64, 85, 86
CHESTNUT-HEADED BEE-EATER <i>Merops leschenaulti</i>	AB, TI	MD, SC	U	RL	6
PIED CUCKOO <i>Clamator jacobinus</i>	UB	DD, MD, SC	C	SM	6, 20, 45, 57, 64, 79, 81, 85, 86
CHESTNUT-WINGED CUCKOO <i>Clamator coromandus</i>					60, 64, 65, 79
LARGE HAWK CUCKOO <i>Hierococcyx sparveriioides</i>					16, 64, 79, 82
COMMON HAWK CUCKOO <i>Hierococcyx varius</i>	UB	DD, MD, SP	C	RL	20, 45, 64, 75, 79, 86
INDIAN CUCKOO <i>Cuculus micropterus</i>	NF, [DH, MO]	DD, MD	F	SM	10, 16, 20, 45, 64, 77, 79, 82, 85, 86
EURASIAN CUCKOO <i>Cuculus canorus</i>	MU, NF, TI, [DH]	DD, MD, MT, SP	F	SM	6, 16, 20, 24, 45, 64, 79, 82, 85, 86
ORIENTAL CUCKOO <i>Cuculus saturatus</i>					16, 64, 79, 82
LESSER CUCKOO <i>Cuculus poliocephalus</i>	[DA	?	R	SM]	64
BANDED BAY CUCKOO <i>Cacomantis sonneratii</i>	NF, TV	MD	U	SM	6, 45, 64, 79
GREY-BELLIED CUCKOO <i>Cacomantis passerinus</i>	TV	MD	U	RO	20, 45, 64, 79, 86
DRONGO CUCKOO <i>Surniculus lugubris</i>	NF, [MO]	DD, MD	F	RL	20, 45, 60, 64, 79, 85, 86
ASIAN KOEL <i>Eudynamys scolopacea</i>	UB	DD, MD, SC, SP	C	RL	20, 24, 45, 64, 65, 75, 76, 79, 85, 86
[GREEN-BILLED MALKOHA <i>Phaenicophaeus tristis</i>	MO	MD	R	RL]	
SIRKEER MALKOHA <i>Phaenicophaeus leschenaultii</i>	KH, [DH]	DD, SC	U	RL	64, 79, 85, 86
GREATER COUCAL <i>Centropus sinensis</i>	AB, KH, TV, [MO]	DD, SC	F	RL	6, 20, 45, 64, 79, 85, 86
LESSER COUCAL <i>Centropus bengalensis</i>	[MO	SC	U	RL]	6, 60, 64, 65, 79
ALEXANDRINE PARAKEET <i>Psittacula eupatria</i>	KP, NF, [DH, MO]	DD, MD	F	RL	18, 20, 24, 45, 64, 79, 86
ROSE-RINGED PARAKEET <i>Psittacula krameri</i>	UB	DD, MD	C	RL	6, 18, 20, 45, 64, 75, 76, 79, 85, 86
SLATY-HEADED PARAKEET <i>Psittacula himalayana</i>	CH, KP, MU, NF, TI	MD, MP, SP	F	RAM	6, 16, 20, 24, 45, 64, 78, 79, 85, 86
PLUM-HEADED PARAKEET <i>Psittacula cyanocephala</i>	UB	DD, MD	C	RL	6, 18, 20, 45, 64, 78, 79, 85, 86
RED-BREASTED PARAKEET <i>Psittacula alexandri</i>	DD, NF	MD	U	RL	14, 38, 44, 45, 79, 81
HIMALAYAN SWIFTLET <i>Collocalia brevirostris</i>	KP	MD	U	RO	16, 44, 45
WHITE-THROATED NEEDLETAIL <i>Hirundapus caudacutus</i>					64, 78, 79, 82

	Locations	Habitat	Abundance	Status	Previous records
ALPINE SWIFT <i>Tachymarptis melba</i>	CH, NF, SA	MD, MT, SC	F	RO	16, 20, 43, 45, 64, 78, 79, 82, 86
FORK-TAILED SWIFT <i>Apus pacificus</i>					16, 78, 82
HOUSE SWIFT <i>Apus affinis</i>	NF	B, HB	F	RO	6, 10, 16, 18, 20, 21, 43, 45, 64, 79, 82, 85, 86
CRESTED TREESWIFT <i>Hemiprocne coronata</i>	KP, NF, [MO]	MD	U	RL	6, 44, 45, 64, 79
BARN OWL <i>Tyto alba</i>	NF	B, HB	R	RL	44, 45, 64, 79
GRASS OWL <i>Tyto capensis</i>					64, 79
MOUNTAIN SCOPS OWL <i>Otus spilocephalus</i>					16, 31, 43, 64, 65, 69, 79, 82
ORIENTAL SCOPS OWL <i>Otus sunia</i>					6, 20, 45, 64, 79, 86
COLLARED SCOPS OWL <i>Otus bakkamoena</i>	TV	MD	U	RL	6, 16, 24, 45, 64, 79
EURASIAN EAGLE OWL <i>Bubo bubo</i>	JH, NF	MD	U	RL	6, 44, 45, 75, 76, 79
BROWN WOOD OWL <i>Strix leptogrammica</i>					20
TAWNY OWL <i>Strix aluco</i>					16, 78
COLLARED OWLET <i>Glaucidium brodiei</i>					6, 10, 16, 20, 45, 54, 64, 69, 79, 86
ASIAN BARRED OWLET <i>Glaucidium cuculoides</i>	NF	MD	R	RL	6, 16, 20, 24, 43, 45, 64, 69, 78, 79, 82
JUNGLE OWLET <i>Glaucidium radiatum</i>	NF	MD	U	RL	6, 20, 45, 64, 79, 85, 86
SPOTTED OWLET <i>Athene brama</i>	NF, [MO]	B, HB, MD	C	RL	20, 37, 45, 64, 79, 85, 86
BROWN HAWK OWL <i>Ninox scutulata</i>	NF	MD	F	RL	20, 45, 64, 79, 86
LONG-EARED OWL <i>Asio otus</i>					16
GREY NIGHTJAR <i>Caprimulgus indicus</i>					16
LARGE-TAILED NIGHTJAR <i>Caprimulgus macrurus</i>	LH, NF, TL, [DH]	DD, MD	F	RL	6, 16, 20, 45, 61, 64, 78, 79, 86
INDIAN NIGHTJAR <i>Caprimulgus asiaticus</i>	[DH]	DD, MD	F	RL]	6, 64, 75, 76, 79
SAVANNA NIGHTJAR <i>Caprimulgus affinis</i>	KH, [DH]	DD, SC	F	RL	6, 44, 45, 61, 64, 78, 79
ROCK PIGEON <i>Columba livia</i>	AB, NF, [MO]	B, DD, HB, SC	C	RO	6, 16, 18, 20, 45, 64, 75, 76, 78, 79, 85, 86
HILL PIGEON <i>Columba rupestris</i>	DB	C, HB, SA	R	RU	64, 79
SNOW PIGEON <i>Columba leuconota</i>					6, 16, 64, 79
COMMON WOOD PIGEON <i>Columba palumbus</i>					44, 45, 64, 79, 81
SPECKLED WOOD PIGEON <i>Columba hodgsonii</i>	TV	MD	R	RAM	64, 79
ORIENTAL TURTLE DOVE <i>Streptopelia orientalis</i>	DH, MU, NF	MD, MT, SP	F	RAM	6, 16, 45, 64, 75, 76, 78, 79, 85, 86
LAUGHING DOVE <i>Streptopelia senegalensis</i>	NF, [DH, MO]	DD, HB, MD, SC	F	RL	6, 18, 20, 45, 64, 79, 85, 86
SPOTTED DOVE <i>Streptopelia chinensis</i>	UB	DD, HB, MD, MT, SC, SP	C	RO	6, 18, 20, 45, 64, 75, 76, 79, 85, 86
RED COLLARED DOVE <i>Streptopelia tranquebarica</i>	NF, [DH]	DD, HB, MD, SC	F	RL	6, 20, 64, 79, 85, 86
EURASIAN COLLARED DOVE <i>Streptopelia decaocto</i>	KH, NF, [DH]	DD, HB, SC	F	RO	6, 16, 20, 45, 64, 75, 76, 78, 79, 85, 86
EMERALD DOVE <i>Chalcophaps indica</i>	MH, NF, [DH]	DD, MD, SP	U	RL	6, 20, 45, 64, 75, 76, 78, 79, 85, 86
YELLOW-FOOTED GREEN PIGEON <i>Treron phoenicoptera</i>	NF, TV, [DH]	MD	F	RAM	20, 28, 45, 64, 78, 79, 85, 86
PIN-TAILED GREEN PIGEON <i>Treron apicauda</i>					64, 79, 80



	Locations	Habitat	Abundance	Status	Previous records
WEDGE-TAILED GREEN PIGEON <i>Treron sphenura</i>	TV	MD	R	RAM	16, 20, 43, 45, 64, 78, 82
?SIBERIAN CRANE <i>Grus leucogeranus</i>					5, 20, 79
SLATY-LEGGED CRAKE <i>Rallina eurizonoides</i>					5, 6, 58, 60, 64, 65, 79
WATER RAIL <i>Rallus aquaticus</i>					5, 64, 79
BROWN CRAKE <i>Amaurornis akool</i>					5, 64, 79
WHITE-BREADED WATERHEN <i>Amaurornis phoenicurus</i>	AB, KP, NF	AQ	F	RL	18, 44, 45, 48, 64, 78, 80
BAILLON’S CRAKE <i>Porzana pusilla</i>					16
PURPLE SWAMPHEN <i>Porphyrio porphyrio</i>					79
COMMON MOORHEN <i>Gallinula chloropus</i>	AB, CT	AQ	F	RL	5, 48, 64, 78, 79, 80
COMMON COOT <i>Fulica atra</i>	AB, CT	AQ	F	RL	5, 18, 48, 64, 79, 80
EURASIAN WOODCOCK <i>Scolopax rusticola</i>					5, 16, 64, 79
SOLITARY SNIPE <i>Gallinago solitaria</i>					5, 64, 79
WOOD SNIPE <i>Gallinago nemoricola</i>					5, 64, 79
PINTAIL SNIPE <i>Gallinago stenura</i>					5, 64, 79, 80
COMMON SNIPE <i>Gallinago gallinago</i>					5, 28, 64, 79
JACK SNIPE <i>Lymnocyptes minimus</i>					5, 64, 79
SPOTTED REDSHANK <i>Tringa erythropus</i>	AB	AQ	R	WM	
COMMON REDSHANK <i>Tringa totanus</i>					5, 64, 79
COMMON GREENSHANK <i>Tringa nebularia</i>	AB, KH, MS	AQ	F	WM	5, 50, 64, 754
GREEN SANDPIPER <i>Tringa ochropus</i>	AB, KH, MS, SA	AQ	F	WM	5, 20, 24, 45, 64, 79, 85, 86
WOOD SANDPIPER <i>Tringa glareola</i>					5, 79, 86
COMMON SANDPIPER <i>Actitis hypoleucos</i>	AB, KH, MS	AQ	F	WM	5, 18, 20, 64, 74, 79, 80, 85, 86
LITTLE STINT <i>Calidris minuta</i>					5, 64, 79
TEMMINCK’S STINT <i>Calidris temminckii</i>	AB, KH	AQ	U	WM	5, 64, 74, 79, 85, 86
GREATER PAINTED-SNIPE <i>Rostratula benghalensis</i>					5, 6, 28, 64, 79, 80, 86
PHEASANT-TAILED JACANA <i>Hydrophasianus chirurgus</i>	AB, NF	AQ	U	SM	5, 64, 79, 80
EURASIAN THICK-KNEE <i>Burhinus oedicephalus</i>	KH	SC	U	RL	5, 6, 24, 45, 64, 79, 86
GREAT THICK-KNEE <i>Esacus recurvirostris</i>					5, 64, 79, 86
BLACK-WINGED STILT <i>Himantopus himantopus</i>	AB, KH	AQ	F	RL	74, 80
PIED AVOCET <i>Recurvirostra avosetta</i>					18, 80
LITTLE RINGED PLOVER <i>Charadrius dubius</i>	AB	AQ	C	RL	5, 18, 44, 45, 64, 79, 80, 85, 86
KENTISH PLOVER <i>Charadrius alexandrinus</i>					5, 79, 86
NORTHERN LAPWING <i>Vanellus vanellus</i>	AB,	AQ, SC	U	WM	5, 44, 45, 64, 79, 80
YELLOW-WATTLED LAPWING <i>Vanellus malarbaricus</i>	AB	AQ, SC	F	RL	5, 6, 20, 45, 64, 79, 86
RIVER LAPWING <i>Vanellus duvaucelii</i>	AB	AQ, SC	F	RL	5, 18, 24, 44, 45, 64, 78, 79, 80, 85, 86

	Locations	Habitat	Abundance	Status	Previous records
GREY-HEADED LAPWING <i>Vanellus cinereus</i>					5, 79, 86
RED-WATTLED LAPWING <i>Vanellus indicus</i>	AB, KF, NF, [DH, MO]	AQ, SC	C	RL	5, 6, 18, 20, 45, 64, 78, 79, 80, 85, 86
SMALL PRATINCOLE <i>Glareola lactea</i>	AB	AQ	U	RL	5, 6, 64, 79
INDIAN SKIMMER <i>Rynchops albicollis</i>					5, 64, 79
PALLAS'S GULL <i>Larus ichthyaetus</i>					5, 64, 79
BROWN-HEADED GULL <i>Larus brunnicephalus</i>	AB	AQ	U	WM	79, 80
BLACK-HEADED GULL <i>Larus ridibundus</i>	AB	AQ	U	WM	
RIVER TERN <i>Sterna aurantia</i>	AB	AQ	F	RL	18, 64, 80
LITTLE TERN <i>Sterna albifrons</i>					64
BLACK-BELLIED TERN <i>Sterna acuticauda</i>	AB	AQ	R	RL	18, 20
WHISKERED TERN <i>Chlidonias hybridus</i>	AB	AQ	R	SM	5, 79, 86
OSPREY <i>Pandion haliaetus</i>	AB, HR	AQ, SC	U	RL	5, 64, 79
ORIENTAL HONEY-BUZZARD <i>Pernis ptilorhynchus</i>	AB, KF, KH, NF	MD, SC, SP	F	RO	5, 20, 43, 45, 64, 79
BLACK-SHOULDERED KITE <i>Elanus caeruleus</i>	KH, NF, TG	DD, SC	F	RL	5, 18, 20, 45, 64, 79, 85, 86
BLACK KITE <i>Milvus migrans</i>	UB	DD, SC	C	RL	5, 6, 10, 16, 18, 43, 45, 64, 75, 76, 78, 79, 82, 85, 86
BRAHMINY KITE <i>Haliastur indus</i>	AB	SC	R	RL	5, 16, 20, 28, 45, 64, 78, 79, 85, 86
PALLAS'S FISH EAGLE <i>Haliaeetus leucoryphus</i>	AB, [DH]	AQ, DD, SC			5, 6, 18, 79
LESSER FISH EAGLE <i>Ichthyophaga humilis</i>					5, 64, 79
LAMMERGEIER <i>Gypaetus barbatus</i>	CH, DF, MU, NF, [KF]	C, R, SA, SC	U	RU	5, 10, 16, 20, 43, 45, 64, 78, 79, 82, 86
EGYPTIAN VULTURE <i>Neophron percnopterus</i>	UB	DD, SC	C	RO	5, 6, 16, 18, 20, 43, 45, 64, 78, 79, 82, 85, 86
WHITE-RUMPED VULTURE <i>Gyps bengalensis</i>	UB	DD, MD, SC	C	RO	5, 6, 16, 18, 20, 43, 45, 64, 78, 79, 85, 86
LONG-BILLED VULTURE <i>Gyps indicus</i>	KH, TG	SC	F	RL	44, 45, 78
HIMALAYAN GRIECON <i>Gyps himalayensis</i>	MU, [KF, ML]	C, R, SC	F	RU	5, 6, 16, 43, 64, 78, 79, 86
EURASIAN GRIFFON <i>Gyps fulvus</i>	[DH	SC	U	RL]	5, 45, 64, 65, 78, 79, 85, 86
CINEREOUS VULTURE <i>Aegypius monachus</i>	[DH	SC	U	WM]	5, 64, 79
RED-HEADED VULTURE <i>Sarcogyps calvus</i>	KF, KH, [DH]	C, DD, SC	U	RO	5, 6, 16, 18, 20, 43, 45, 64, 75, 76, 78, 79, 85, 86
SHORT-TOED SNAKE EAGLE <i>Circetus gallicus</i>	NT, [DH]	MD	U	RL	5, 6, 20, 45, 64, 79
CRESTED SERPENT EAGLE <i>Spilornis cheela</i>	KH, NF, SA, [DH]	DD, MD	U	RL	5, 6, 16, 20, 45, 64, 79, 86
EURASIAN MARSH HARRIER <i>Circus aeruginosus</i>	AB	SC	F	WM	5, 64, 79, 85, 86
HEN HARRIER <i>Circus cyaneus</i>	KH, NF	MD, SC	F	WM	5, 64, 74, 79
PALLID HARRIER <i>Circus macrourus</i>					5, 64, 79, 85
MONTAGU'S HARRIER <i>Circus pygargus</i>					5, 64, 79
SHIKRA <i>Accipiter badius</i>	UB	DD, MD	F	RL	5, 6, 18, 20, 28, 45, 64, 65, 79, 82, 85, 86
BESRA <i>Accipiter virgatus</i>					5, 20, 45, 64, 79, 85, 86
EURASIAN SPARROWHAWK <i>Accipiter nisus</i>	NF	MD	R	RAM	5, 64, 74, 79



	Locations	Habitat	Abundance	Status	Previous records
NORTHERN GOSHAWK <i>Accipiter gentilis</i>					16, 43, 81
WHITE-EYED BUZZARD <i>Butastur teesa</i>					5, 6, 20, 45, 64, 79, 86
COMMON BUZZARD <i>Buteo buteo</i>					81
LONG-LEGGED BUZZARD <i>Buteo rufinus</i>	KH, NF	MD, SC	U	WM	5, 6, 20, 24, 45, 64, 79, 86
BLACK EAGLE <i>Ictinaetus malayensis</i>	CH, [DA]	C, MT	U	RU	5, 16, 20, 45, 64, 78, 79
GREATER SPOTTED EAGLE <i>Aquila clanga</i>	AB	AQ, SC	U	WM	18
TAWNY EAGLE <i>Aquila rapax</i>					5, 79
STEPPE EAGLE <i>Aquila nipalensis</i>					5, 16, 64, 79, 85, 86
IMPERIAL EAGLE <i>Aquila heliaca</i>	NF	SC	R	WM	5, 64, 74, 79, 86
GOLDEN EAGLE <i>Aquila chrysaetos</i>					5, 78, 79, 85
BONELLI'S EAGLE <i>Hieraetus fasciatus</i>	AB, NF	MD	U	RO	5, 64, 65, 74, 79, 85
CHANGEABLE HAWK EAGLE <i>Spizaetus cirrhatus</i>	LH, NF, TV	MD	F	RL	<i>limnaetus</i> : 5, 6, 20, 45, 64, 78, 79 <i>cirrhatus</i> : 20, 64, 79
MOUNTAIN HAWK EAGLE <i>Spizaetus nipalensis</i>					5, 6, 16, 64, 79
COMMON KESTREL <i>Falco tinnunculus</i>	NF	MD	U	RAM	5, 10, 16, 43, 44, 45, 64, 78, 79, 82
RED-NECKED FALCON <i>Falco chicquera</i>					5, 64, 79, 85, 86
EURASIAN HOBBY <i>Falco subbuteo</i>					5, 6, 59, 64, 79
ORIENTAL HOBBY <i>Falco severus</i>					5, 6, 20, 64, 79
LAGGAR FALCON <i>Falco jugger</i>	NF	MD	R	RL	5, 20, 45, 64, 79
PEREGRINE FALCON <i>Falco peregrinus</i>					5, 20, 45, 64, 78, 79, 86
LITTLE GREBE <i>Tachybaptus ruficollis</i>	AB, CT	AQ	F	RL	5, 18, 48, 64, 79, 80
GREAT CRESTED GREBE <i>Podiceps cristatus</i>	AB	AQ	F	WM	5, 18, 48, 64, 79, 80
BLACK-NECKED GREBE <i>Podiceps nigricollis</i>	AB	AQ	R	WM	18
DARTER <i>Anhinga melanogaster</i>	AB	AQ	R	RL	5, 18, 64, 79, 80
LITTLE CORMORANT <i>Phalacrocorax niger</i>	AB, CT	AQ	F	RL	5, 18, 20, 64, 78, 79, 80
GREAT CORMORANT <i>Phalacrocorax carbo</i>	AB, CT	AQ	C	RL	5, 16, 18, 64, 66, 79, 80
LITTLE EGRET <i>Egretta garzetta</i>	AB, KH, SA	AQ	F	RL	5, 18, 44, 45, 64, 79, 80
GREY HERON <i>Ardea cinerea</i>	AB	AQ	U	RL	5, 18, 64, 78, 79, 80
PURPLE HERON <i>Ardea purpurea</i>	AB	AQ	F	RL	5, 18, 64, 79, 80
GREAT EGRET <i>Casmerodius albus</i>	AB	AQ	U	RL	5, 18, 64, 79, 80
INTERMEDIATE EGRET <i>Mesophoyx intermedia</i>					5, 18, 64, 79
CATTLE EGRET <i>Bubulcus ibis</i>	UB	AQ, SC	C	RL	5, 6, 18, 44, 45, 64, 75, 76, 78, 79, 80
INDIAN POND HERON <i>Ardeola grayii</i>	UB	AQ	C	RL	5, 6, 18, 20, 28, 45, 64, 78, 79, 80, 85, 86
LITTLE HERON <i>Butorides striatus</i>					5, 6, 64, 79, 86
BLACK-CROWNED NIGHT HERON <i>Nycticorax nycticorax</i>	AB, KH, NF	AQ	U	RL	5, 6, 20, 24, 45, 64, 79, 80, 85, 86
LITTLE BITTERN <i>Ixobrychus minutus</i>					5, 64, 79

	Locations	Habitat	Abundance	Status	Previous records
BLACK IBIS <i>Pseudibis papillosa</i>	AB	AQ	R	RL	80
GREAT WHITE PELICAN <i>Pelecanus onocrotalus</i>					5, 64, 79
ASIAN OPENBILL <i>Anastomus oscitans</i>	AB	AQ	F	RL	80
WOOLLY-NECKED STORK <i>Ciconia episcopus</i>	AB	AQ	U	RL	5, 20, 64, 78, 79, 80, 85, 86
PAINTED STORK <i>Mycteria leucocephala</i>	AB	AQ	F	RL	80
BLACK STORK <i>Ciconia nigra</i>					5, 19, 79, 85, 86
BLACK-NECKED STORK <i>Ephippiorhynchus asiaticus</i>	AB	AQ	R	RL	5, 6, 64, 79
HOODED PITTA <i>Pitta sordida</i>	TV	MD	R	SM	44, 45, 46
INDIAN PITTA <i>Pitta brachyura</i>	TI, [MO]	DD, MD	F	SM	44, 45, 60, 64, 65, 86
LONG-TAILED BROADBILL <i>Psarismus dalhousiae</i>					6, 16, 64, 64
GOLDEN-FRONTED LEAFBIRD <i>Chloropsis aurifrons</i>	NF, TI, TV	MD	U	RL	6, 16, 20, 45, 64, 86
ORANGE-BELLIED LEAFBIRD <i>Chloropsis hardwickii</i>					64
BROWN SHRIKE <i>Lanius cristatus</i>	NF	MD	U	WM	35, 44, 45
BAY-BACKED SHRIKE <i>Lanius vittatus</i>	NF, [DH]	DD, SC	F	RL	20, 45, 64, 85, 86
LONG-TAILED SHRIKE <i>Lanius schach</i>	UB	DD, MD, SC	C	RO	6, 18, 20, 45, 64, 78, 85, 86
GREY-BACKED SHRIKE <i>Lanius tephronotus</i>					6
SOUTHERN GREY SHRIKE <i>Lanius meridionalis</i>	[MO	DD, SC	F	RL]	6, 64
EURASIAN JAY <i>Garrulus glandarius</i>	CH, MU	MT, SP	F	RU	16, 64
BLACK-HEADED JAY <i>Garrulus lanceolatus</i>	CH, LH, MU	MD, MT, SP	F	RAM	6, 10, 16, 64
YELLOW-BILLED BLUE MAGPIE <i>Urocissa flavirostris</i>	CH	MD	U	RU	78
RED-BILLED BLUE MAGPIE <i>Urocissa erythrorhyncha</i>	CH, MU, NF, [DA]	MD, MT, SP	U	RAM	6, 16, 20, 43, 45, 64, 78, 82
COMMON GREEN MAGPIE <i>Cissa chinensis</i>					64
RUFIOUS TREEPIE <i>Dendrocitta vagabunda</i>	UB	DD, HB, MD, SC	C	RL	6, 18, 20, 45, 64, 85, 86
GREY TREEPIE <i>Dendrocitta formosae</i>	KP, NF, [DH]	MD, MT, SP	F	RO	6, 16, 20, 24, 43, 45, 64, 69, 78, 82, 86
SPOTTED NUTCRACKER <i>Nucifraga caryocatactes</i>	[DA	MT	U	RU]	6, 10, 16, 56, 64, 78
RED-BILLED CHOUGH <i>Pyrrhocorax pyrrhocorax</i>					64, 86
YELLOW-BILLED CHOUGH <i>Pyrrhocorax graculus</i>					6, 64
HOUSE CROW <i>Corvus splendens</i>	UB	DD, HB, MD	C	RL	6, 18, 20, 45, 64, 65, 78, 79, 85, 86
LARGE-BILLED CROW <i>Corvus macrorhynchos</i>	UB	DD, HB, MD, MT, SC, SP	C	RO	6, 10, 16, 18, 20, 43, 45, 64, 78, 79, 82, 85, 86
ASHY WOODSWALLOW <i>Artamus fuscus</i>	TV, [DH]	MD, SC	R	RO	60, 74
EURASIAN GOLDEN ORIOLE <i>Oriolus oriolus</i>	UB	DD, MD, SP	F	SM	6, 16, 20, 24, 45, 75, 76, 78, 85, 86
BLACK-HOODED ORIOLE <i>Oriolus xanthornus</i>	KP, NF, TI	MD, SP	F	RL	20, 45, 64, 78, 86
MAROON ORIOLE <i>Oriolus traillii</i>	NF, TG	MD, SP	U	RAM	16, 20, 24, 43, 45, 64, 79, 782, 86
LARGE CUCKOOSHRIKE <i>Coracina macei</i>	NF, TI	DD, MD, SP	U	RO	20, 24, 45, 64, 85, 86
BLACK-WINGED CUCKOOSHRIKE <i>Coracina melaschistos</i>	NF, TI, TV	MD	F	RAM	16, 20, 24, 45, 64, 82, 85, 86



	Locations	Habitat	Abundance	Status	Previous records
BLACK-HEADED CUCKOOSHRIKE <i>Coracina melanoptera</i>	KP, NF	MD	U	RL	28, 44, 45
ROSY MINIVET <i>Pericrocotus roseus</i>	NF, TV	DD, MD, SP	U	SM	20, 45, 81, 86
SMALL MINIVET <i>Pericrocotus cinnamomeus</i>	UB	DD, MD, SP	C	RO	20, 45, 64, 85, 86
LONG-TAILED MINIVET <i>Pericrocotus ethologus</i>	KP, NF, TV, [DH, MO]	DD, MD, MT, SP	F	RAM	6, 16, 44, 45, 64, 82, 85, 86
SHORT-BILLED MINIVET <i>Pericrocotus brevirostris</i>					20, 78
SCARLET MINIVET <i>Pericrocotus flammeus</i>	KP, [DH]	MD, SP	F	RAM	6, 10, 16, 43, 45, 64
BAR-WINGED FLYCATCHER-SHRIKE <i>Hemipus picatus</i>	KP, NF, TV, [DH, MO]	DD, MD, SP	F	RO	20, 45, 60, 64, 85, 86
YELLOW-BELLIED FANTAIL <i>Rhipidura hypoxantha</i>	CH, MU, NF, TI, TV, [DH, MO]	DD, MD, MT, SP	F	RAM	6, 16, 20, 24, 45, 64, 85, 86
WHITE-THROATED FANTAIL <i>Rhipidura albicollis</i>	UB	DD, MD, SP	C	RO	6, 20, 45, 64, 85, 86
WHITE-BROWED FANTAIL <i>Rhipidura aureola</i>	UB	DD, MD, SP	F	RO	20, 45, 64, 81, 85, 86
BLACK DRONGO <i>Dicrurus macrocercus</i>	UB	DD, MD, SC, SP	C	RO	6, 18, 20, 43, 45, 62, 64, 85, 86
ASHY DRONGO <i>Dicrurus leucophaeus</i>	KP, NF	MD	U	RAM	16, 20, 45, 64, 78, 82
WHITE-BELLIED DRONGO <i>Dicrurus caerulescens</i>	NF, TG	DD, MD	R	RL	44, 45
LESSER RACKET-TAILED DRONGO <i>Dicrurus remifer</i>					64
SPANGLED DRONGO <i>Dicrurus hottentottus</i>	NF, TI, [DH]	MD	F	RO	20, 45, 60, 64, 86
BLACK-NAPED MONARCH <i>Hypothymis azurea</i>	KS, MU, NF	DD, MD	U	RL	44, 45, 64
ASIAN PARADISE-FLYCATCHER <i>Terpsiphone paradisi</i>	MD, MU, NF, TI, [DH, ML, MO]	DD, MD, MT, SP	F	SM	16, 20, 45, 60, 64, 75, 76, 79, 85, 86
COMMON IORA <i>Aegithina tiphia</i>	UB	DD, MD	F	RO	6, 20, 45, 64, 86
COMMON WOODSHRIKE <i>Tephrodornis pondicerianus</i>	KP, NF, TI, TV, [DH]	DD, MD, SP	F	RL	20, 45, 64, 86
BROWN DIPPER <i>Cinclus pallasii</i>	TK, [ML, MO]	AQ, C, R	R	RAM	16, 53, 64
BLUE-CAPPED ROCK THRUSH <i>Monticola cinclorhynchus</i>	TV	MD	F	SM	10, 16, 20, 43, 45, 64, 82, 86
CHESTNUT-BELLIED ROCK THRUSH <i>Monticola rufiventris</i>	CH, [DA]	MT, R	F	RAM	16, 20, 43, 45, 64, 82
BLUE ROCK THRUSH <i>Monticola solitarius</i>	NF	B, R	U	RAAM	10, 16, 20, 45, 64, 86
BLUE WHISTLING THRUSH <i>Myophonus caeruleus</i>	CH, MD, MU, NF, [DA, DH, MO]	MD, MT, R, SP	C	RAM	6, 16, 20, 23, 24, 43, 45, 64, 78, 79, 82, 85, 86
ORANGE-HEADED THRUSH <i>Zoothera citrina</i>	NF, TV, [MO]	DD, MD	F	SM	16, 20, 45, 64
PIED THRUSH <i>Zoothera wardii</i>					10
PLAIN-BACKED THRUSH <i>Zoothera mollissima</i>	NF	SC	U	RAM	16, 64, 74
LONG-TAILED THRUSH <i>Zoothera dixonii</i>					16
SCALY THRUSH <i>Zoothera dauma</i>	NF, [DA]	MD, MT	U	RAM	6, 16, 20, 45, 64
LONG-BILLED THRUSH <i>Zoothera monticola</i>					16, 64
TICKELL'S THRUSH <i>Turdus unicolor</i>	NF	MD	U	SM	10, 16, 20, 45, 69
WHITE-COLLARED BLACKBIRD <i>Turdus albocinctus</i>					16, 54, 64, 67, 78, 81
GREY-WINGED BLACKBIRD <i>Turdus boulboul</i>	MU, NF	MD, MT	U	RAM	10, 16, 20, 24, 43, 45, 64, 65, 82
CHESTNUT THRUSH <i>Turdus rubrocanus</i>					16, 69, 81
DARK-THROATED THRUSH <i>Turdus ruficollis</i>	NF	SC	F	WM	6, 16, 20, 45, 64, 85, 86

	Locations	Habitat	Abundance	Status	Previous records
MISTLE THRUSH <i>Turdus viscivorus</i>					16, 45
DARK-SIDED FLYCATCHER <i>Muscicapa sibirica</i>	CH, KP, NF	MD, MT	F	RAM	16, 20, 45, 64, 72, 78
ASIAN BROWN FLYCATCHER <i>Muscicapa dauurica</i>	TI, TV	MD	U	SM	20, 24, 45, 72, 86
RUSTY-TAILED FLYCATCHER <i>Muscicapa ruficauda</i>					16
RUFIOUS-GORGETED FLYCATCHER <i>Ficedula strophliata</i>	KP, NF	MD, SP	U	RAM	16, 20, 24, 45, 64, 72, 86
RED-THROATED FLYCATCHER <i>Ficedula parva</i>	NF, [DH]	MD	F	RAM	16, 20, 45, 72, 85, 86
SNOWY-BROWED FLYCATCHER <i>Ficedula hyperythra</i>	NF	MD	R	VG	44, 45
LITTLE PIED FLYCATCHER <i>Ficedula westermanni</i>	CH, MU, [DA]	MT	F	RAM	72
ULTRAMARINE FLYCATCHER <i>Ficedula superciliaris</i>	NF, TV, [DA]	MD, MT	F	SM	6, 10, 16, 20, 24, 45, 54, 64, 72, 86
SLATY-BLUE FLYCATCHER <i>Ficedula tricolor</i>	KP, NF, TK, TV	MD, SP	F	RAM	16, 20, 24, 45, 64, 72, 85, 86
VERDITER FLYCATCHER <i>Eumyias thalassina</i>	CH, MU, NF, [DA]	MD, MT, SP	F	RAM	10, 16, 18, 20, 45, 64, 72, 79, 85
SMALL NILTAVA <i>Niltava macgrigoriae</i>	KP, NF	AQ, MD, SP	R	RAM	20, 24, 45, 72
RUFIOUS-BELLIED NILTAVA <i>Niltava sundara</i>	KP, MU, NF, TV, [ML]	MD, MT, SP	U	RAM	16, 20, 24, 45, 64, 72, 78, 86
BLUE-THROATED FLYCATCHER <i>Cyornis rubeculoides</i>	MD, NF, TI, TV	MD	F	SM	6, 10, 20, 45, 64, 72, 86
TICKELL'S BLUE FLYCATCHER <i>Cyornis tickelliae</i>	[DH, MO	MD	F	SM]	20, 45, 64, 72
GREY-HEADED CANARY FLYCATCHER <i>Culicicapa ceylonensis</i>	MU, NF, TI, TV, [DA, DH, MO]	DD, MD, MT, SP	C	RAM	16, 20, 24, 45, 64, 72, 86
WHITE-TAILED RUBYTHROAT <i>Luscinia pectoralis</i>	KH, MD, NF, TV, [MO]	DD, MD, SC	F	RAM	16, 20, 45, 64, 85, 86
BLUETHROAT <i>Luscinia svecica</i>	KP, NF, TV	SC	F	WM	20, 45, 64, 85, 86
INDIAN BLUE ROBIN <i>Luscinia brunnea</i>					20, 24, 45, 54, 64
ORANGE-FLANKED BUSH ROBIN <i>Tarsiger cyanurus</i>	MU, SS	MD, MT	U	RAM	6, 16, 20, 24, 25, 45, 64
GOLDEN BUSH ROBIN <i>Tarsiger chrysaeus</i>					6, 16, 64
ORIENTAL MAGPIE ROBIN <i>Copsychus saularis</i>	NF, TI, [DH, MO]	HB, MD	C	RL	6, 16, 20, 45, 64, 78, 85, 86
WHITE-RUMPED SHAMA <i>Copsychus malabaricus</i>	[MO	MD	R	RL]	6
INDIAN ROBIN <i>Saxicoloides fulicata</i>	KH, [DH, MO]	SC	F	RL	18, 20, 45, 64, 85, 86
BLACK REDSTART <i>Phoenicurus ochruros</i>	AB, KA, KH, KP, NF	R, SC	F	RAM	20, 26, 45, 64, 85, 86
BLUE-CAPPED REDSTART <i>Phoenicurus coeruleocephalus</i>	NF, [DA]	MD, SP	F	RAM	16, 20, 45, 64, 86
HODGSON'S REDSTART <i>Phoenicurus hodgsoni</i>	KH	R, SC	R	VG	74
BLUE-FRONTED REDSTART <i>Phoenicurus frontalis</i>	CH	AQ, MT, SC	U	RAM	6, 16, 64, 78
WHITE-CAPPED WATER REDSTART <i>Chaimarrornis leucocephalus</i>	AB, KA, KH, NF, SA, SS, TK, [DH, ML]	AQ, R	C	RAM	6, 16, 18, 20, 24, 26, 39, 45, 53, 64, 66, 78, 79, 85, 86
PLUMBEOUS WATER REDSTART <i>Rhyacornis fuliginosus</i>	AB, KA, KH, NF, SA, SS, TK, [DH, ML]	AQ, R	C	RAM	18, 20, 26, 45, 53, 64, 66, 78, 79, 85, 86
WHITE-BELLIED REDSTART <i>Hodgsonius phaenicuroides</i>					64
LITTLE FORKTAIL <i>Enicurus scouleri</i>	TK	AQ, MD, R	U	RAM	16, 53, 55, 64, 70, 78
SLATY-BACKED FORKTAIL <i>Enicurus schistaceus</i>					53
SPOTTED FORKTAIL <i>Enicurus maculatus</i>	KA, KF	AQ, MD, MT, R	U	RAM	10, 16, 53, 64, 78, 79
COMMON STONECHAT <i>Saxicola torquata</i>	KH, SA, [DH]	SC	C	RL	16, 20, 45, 64, 78, 85, 86

	Locations	Habitat	Abundance	Status	Previous records
PIED BUSHCHAT <i>Saxicola caprata</i>	KH, [DH]	SC	F	RL	18, 20, 45, 64, 78, 79, 85, 86
GREY BUSHCHAT <i>Saxicola ferrea</i>	CH, NF, [DH]	DD, MD, MT, SC, SP	F	RAM	10, 16, 20, 45, 64, 78, 85, 86
VARIABLE WHEATEAR <i>Oenanthe picata</i>	KH	R, SC	R	VG	74, 86
DESERT WHEATEAR <i>Oenanthe deserti</i>					44, 45
ISABELLINE WHEATEAR <i>Oenanthe isabellina</i>	KH	SC	R	VG	45
BROWN ROCK-CHAT <i>Cercomela fusca</i>	DD, NF	B, HB	F	RL	6, 18, 20, 45, 64, 86
SPOT-WINGED STARLING <i>Saroglossa spiloptera</i>	NF	MD	F	PM	20, 45, 86
CHESTNUT-TAILED STARLING <i>Sturnus malabaricus</i>	MD, NF, TI, [DH]	DD, HB, MD	F	RL	6, 20, 28, 45, 64, 85, 86
BRAHMINY STARLING <i>Sturnus pagodarum</i>	UB	DD, HB, MD, SC	F	RL	20, 24, 45, 51, 64, 85, 86
COMMON STARLING <i>Sturnus vulgaris</i>	AB, KH	SC	U	WM	20, 24, 45, 64, 85, 86
ASIAN PIED STARLING <i>Sturnus contra</i>	UB	DD, HB, SC	C	RL	2, 6, 18, 20, 45, 49, 51, 52, 64, 79, 85, 86
COMMON MYNA <i>Acridotheres tristis</i>	UB	DD, HB, MD, MT, SC, SP	C	RO	6, 10, 16, 18, 20, 36, 45, 51, 64, 75, 76, 78, 79, 85, 86
BANK MYNA <i>Acridotheres ginginianus</i>	AB, DD	HB	F	RL	6, 18, 20, 45, 51, 64, 85, 86
JUNGLE MYNA <i>Acridotheres fuscus</i>	NF, TI, [DH, MO]	MD	F	RL	6, 10, 16, 18, 20, 45, 51, 64, 78, 79, 85, 86
CHESTNUT-BELLIED NUTHATCH <i>Siitta castanea</i>	MD, TV	MD	U	RO	16, 20, 45, 64, 86
WHITE-TAILED NUTHATCH <i>Siitta himalayensis</i>	CH	MT	U	RM	10, 16, 43, 64, 81
WHITE-CHEEKED NUTHATCH <i>Siitta leucopsis</i>					64, 78
VELVET-FRONTED NUTHATCH <i>Siitta frontalis</i>	KP, NF	MD	U	RL	44, 45
WALLCREEPER <i>Tichodroma muraria</i>	AB, NF, SS, TK	B, C, R	U	RAM	16, 20, 24, 45, 64, 78, 85, 86
BAR-TAILED TREECREEPER <i>Certhia himalayana</i>	CH, MU, NF	MD, MT, SP	F	RAM	16, 20, 28, 43, 45, 54, 64, 85, 86
WINTER WREN <i>Troglodytes troglodytes</i>	NF	MD	R	RAM	16, 64, 74
FIRE-CAPPED TIT <i>Cephalopyrus flammiceps</i>					12, 16, 64
RUFOUS-NAPED TIT <i>Parus rufonuchalis</i>	CH	MT, SA, SP	U	RU	64, 78
SPOT-WINGED TIT <i>Parus melanolophus</i>	CH, [DA]	MT, SA, SP	U	RU	16, 20, 45, 64, 86
GREY-CRESTED TIT <i>Parus dichrous</i>	MU	MT, SA	F	RU	6, 55, 64
GREAT TIT <i>Parus major</i>	UB	DD, MD, SP	C	RO	16, 18, 20, 45, 64, 75, 78, 85, 86
GREEN-BACKED TIT <i>Parus monticolus</i>	CH, MU, [DA]	MT, SP	F	RU	16, 20, 43, 45, 64, 78, 86
BLACK-LORED TIT <i>Parus xanthogenys</i>	CH, MU	MT, SP	U	RU	10, 16, 43, 64, 69, 81
YELLOW-BROWED TIT <i>Sylviparus modestus</i>					16
BLACK-THROATED TIT <i>Aegithalos concinnus</i>	CH, MU, [DA]	MT, SP	F	RU	6, 10, 16, 43, 64
WHITE-THROATED TIT <i>Aegithalos niveogularis</i>					64
SAND MARTIN <i>Riparia riparia</i>	AB	SC	F	RO	64
PLAIN MARTIN <i>Riparia paludicola</i>	KH	SC	F	RL	6, 44, 45, 64, 85, 86
EURASIAN CRAG MARTIN <i>Hirundo rupestris</i>					16, 20, 85, 86
DUSKY CRAG MARTIN <i>Hirundo concolor</i>	AB, NF	B, HB	F	RL	6, 20, 24, 45, 64, 86



	Locations	Habitat	Abundance	Status	Previous records
BARN SWALLOW <i>Hirundo rustica</i>	AB, KH	B, Sc	U	RO	6, 18, 44, 45, 64, 78
WIRE-TAILED SWALLOW <i>Hirundo smithii</i>	AB, NF	B, HB, MD, SC	C	RO	6, 18, 20, 24, 33, 45, 64, 85, 86
RED-RUMPED SWALLOW <i>Hirundo daurica</i>	AB, NF	B, HB, MD, SC	C	RL	16, 20, 45, 64, 82, 85, 86
STREAK-THROATED SWALLOW <i>Hirundo fluviicola</i>	AB, NF	B, MD, SC	U	RL	6, 20, 45, 64, 86
NORTHERN HOUSE MARTIN <i>Delichon urbica</i>					10
ASIAN HOUSE MARTIN <i>Delichon dasypus</i>					6, 16, 18, 64, 82
GOLDCREST <i>Regulus regulus</i>					16
BLACK-CRESTED BULBUL <i>Pycnonotus melanicterus</i>					20, 24, 45, 64, 75, 76, 86
HIMALAYAN BULBUL <i>Pycnonotus leucogenys</i>	UB	DD, MD, MT, SC, SP	C	RO	6, 16, 18, 20, 45, 64, 78, 79, 85, 86
RED-VENTED BULBUL <i>Pycnonotus cafer</i>	UB	DD, MD, SC, SP	C	RL	6, 18, 20, 45, 64, 78, 79, 85, 86
MOUNTAIN BULBUL <i>Hypsipetes mccllellandii</i>	SS	?	R	RL	16
BLACK BULBUL <i>Hypsipetes leucocephalus</i>	MU, NF, [DH]	DD, MD, MT, SP	F	RAM	16, 20, 24, 43, 45, 64, 75, 76, 82, 86
ZITTING CISTICOLA <i>Cisticola juncidis</i>	KH, [MO]	SC	U	RL	45, 78, 86
STRIATED PRINIA <i>Prinia criniger</i>	KF, [DH]	SC	U	RO	10, 16, 64, 78
GREY-BREASTED PRINIA <i>Prinia hodgsonii</i>	UB	DD, MD, SC	C	RL	6, 20, 45, 64, 85, 86
JUNGLE PRINIA <i>Prinia sylvatica</i>	[MO	MD	U	RL]	6, 20, 45, 64, 85, 86
ASHY PRINIA <i>Prinia socialis</i>	AB, KH, KP, NF, [DH, MO]	DD, SC	F	RL	6, 20, 45, 64, 85, 86
PLAIN PRINIA <i>Prinia inornata</i>	AB, KH	SC	U	RL	20, 64, 85, 86
ORIENTAL WHITE-EYE <i>Zosterops palpebrosus</i>	UB	DD, MD, SP	F	RL	6, 16, 18, 20, 45, 64, 79, 85, 86
CHESTNUT-HEADED TESIA <i>Tesia castaneocoronata</i>	TV	MD	R	RAM	16, 45, 64
PALE-FOOTED BUSH WARBLER <i>Cettia pallidipes</i>	NF, TV	MD	U	RAM	6, 64, 74
BROWNISH-FLANKED BUSH WARBLER <i>Cettia fortipes</i>	CH <i>pallidus</i> NF, TV <i>fortipes</i>	MT MD	F U	RAM RAM	16, 20, 60, 64, 65, 74, 86
ABERRANT BUSH WARBLER <i>Cettia flavolivacea</i>					16, 64
GREY-SIDED BUSH WARBLER <i>Cettia brunnifrons</i>	MD, TV	MD	F	RAM	16, 44, 45, 64
SPOTTED BUSH WARBLER <i>Bradypterus thoracicus</i>	NF	MD	R	RAM	64, 74
BLYTH'S REED WARBLER <i>Acrocephalus dumetorum</i>	NF, TV, [DH, MO]	MD	F	PM	16, 44, 45
BOOTED WARBLER <i>Hippolais caligata</i>	KH, NF	SC	U	PM	74
COMMON TAILORBIRD <i>Orthotomus sutorius</i>	UB	DD, MD, SP	C	RL	6, 20, 45, 64, 85, 86
COMMON CHIFFCHAFF <i>Phylloscopus collybita</i>	KH, MS	SC	F	WM	74
DUSKY WARBLER <i>Phylloscopus fuscatus</i>	AB, NF, [DH]	MD	F	WM	16, 74
TICKELL'S LEAF WARBLER <i>Phylloscopus affinis</i>	CH	MT	F	SM	6, 20, 45, 64, 78
SULPHUR-BELLIED WARBLER <i>Phylloscopus griseolus</i>	MU, NF, TV	MD	F	SM	10, 43, 44, 45
BUFF-BARRED WARBLER <i>Phylloscopus pulcher</i>					16
ASHY-THROATED WARBLER <i>Phylloscopus maculipennis</i>					16, 79

	Locations	Habitat	Abundance	Status	Previous records
LEMON-RUMPED WARBLER <i>Phylloscopus chloronotus</i>	AB, KP, NF, SS, [DH, MO]	MD	C	RAM	6, 16, 20, 43, 45, 64, 86
HUME’S WARBLER <i>Phylloscopus humei</i>	NF, SS, [DH]	MD	F	RAM	16, 45, 74, 86
GREENISH WARBLER <i>Phylloscopus trochiloides</i>	NF	MD	F	RAM	16, 24, 45, 78
TYTLER’S LEAF WARBLER <i>Phylloscopus tytleri</i>					16
WESTERN CROWNED WARBLER <i>Phylloscopus occipitalis</i>	NF, [DA]	DD, MD, MT, SP	F	SM	16, 20, 45, 64, 78, 86
BLYTH’S LEAF WARBLER <i>Phylloscopus reguloides</i>	DB	MT, SA	F	RAM	
GOLDEN-SPECTACLED/WHISTLER’S WARBLER <i>Seicercus burkii/whistleri</i>	NF, TV	MD	F	RAM	16, 20, 45, 64, 86
GREY-HOODED WARBLER <i>Seicercus xanthoschistos</i>	AB, CH, MU, NF, SS, TI, TV, [DH, MO]	DD, MD, MT, SP	F	RAM	10, 16, 20, 43, 45, 64, 69, 78, 82, 86
WHITE-THROATED LAUGHINGTHRUSH <i>Garrulax albogularis</i>	CH	MT	U	RU	6, 16, 43, 64, 78, 82
STRIATED LAUGHINGTHRUSH <i>Garrulax striatus</i>	CH, NF	MD, MT, SP	U	RAM	6, 16, 44, 45, 64
WHITE-CRESTED LAUGHINGTHRUSH <i>Garrulax leucolophus</i>	KP, LH	MD	U	RL	6, 20, 45, 64, 78, 86
RUFOUS-CHINNED LAUGHINGTHRUSH <i>Garrulax rufogularis</i>	NF	MD	U	RL	6, 16, 20, 30, 45, 64, 69
SPOTTED LAUGHINGTHRUSH <i>Garrulax ocellatus</i>					44
STREAKED LAUGHINGTHRUSH <i>Garrulax lineatus</i>	CH, MU, [DA]	MT, SP	C	RU	10, 16, 43, 64, 78, 82
VARIEGATED LAUGHINGTHRUSH <i>Garrulax variegatus</i>	SA, [DA]	MD, MT, SP	F	RU	16, 64, 78, 81
CHESTNUT-CROWNED LAUGHINGTHRUSH <i>Garrulax erythrocephalus</i>	[DA]	?	R	RU]	16, 64, 69, 78
PUFF-THROATED BABBLER <i>Pellorneum ruficeps</i>	KP, NF, TI, [DH, MO]	DD, MD	F	RL	6, 20, 45, 59, 63, 64, 85, 86
RUSTY-CHEEKED SCIMITAR BABBLER <i>Pomatorhinus erythrogenys</i>	MD, MU, NF, SA	MD, SP	F	RO	6, 10, 16, 20, 45, 64, 78, 85, 86
WHITE-BROWED SCIMITAR BABBLER <i>Pomatorhinus schisticeps</i>	NF	MD	U	RL	6, 16, 28, 45, 64, 78, 86
SCALY-BREASTED WREN BABBLER <i>Pnoepyga albiventer</i>	NF	MD	R	RAM	16, 44, 45, 64
BLACK-CHINNED BABBLER <i>Stachyris pyrrhops</i>	KP, MU, NF, TI, [DH, MO]	MD, MT, SP	C	RO	16, 20, 45, 64, 86
TAWNY-BELLIED BABBLER <i>Dumetia hyperythra</i>	NF	MD	R	RL	74
YELLOW-EYED BABBLER <i>Chrysomma sinense</i>	UB	DD, SC	F	RL	6, 20, 45, 64, 85, 86
COMMON BABBLER <i>Turdoides caudatus</i>	AB, KH, NF, [DH]	DD, SC	F	RL	6, 18, 20, 45, 64, 85, 86
STRIATED BABBLER <i>Turdoides earlei</i>	AB	AQ, SC	R	RL	
LARGE GREY BABBLER <i>Turdoides malcolmi</i>	AB, KH, TG	SC	F	RL	74
JUNGLE BABBLER <i>Turdoides striatus</i>	UB	DD, MD, SC, SP	C	RL	6, 16, 18, 20, 45, 64, 65, 85, 86
SILVER-EARED MESIA <i>Leiothrix argentauris</i>	MU	MT	R	RU	
RED-BILLED LEIOTHRIX <i>Leiothrix lutea</i>	NF	MD	R	RAM	6, 45, 64, 75, 76, 83
WHITE-BROWED SHRIKE BABBLER <i>Pteruthius flaviscapis</i>	MU	MT	U	RU	16, 82
GREEN SHRIKE BABBLER <i>Pteruthius xanthochlorus</i>					6, 16, 29, 54, 64
CHESTNUT-TAILED MINLA <i>Minla strigula</i>	MU	MT	U	RU	6, 16, 43, 53, 64
WHITE-BROWED FULVETTA <i>Alcippe vinipectus</i>					64
RUFOUS SIBIA <i>Heterophasia capistrata</i>	CH, MU, [DA]	MT, SP	F	RU	16, 64

	Locations	Habitat	Abundance	Status	Previous records
WHISKERED YUHINA <i>Yuhina flavicollis</i>	[DA	?	R	RU]	16
STRIPE-THROATED YUHINA <i>Yuhina gularis</i>					16
BLACK-CHINNED YUHINA <i>Yuhina nigrimenta</i>	MU	MT	R	RU	
LESSER WHITETHROAT <i>Sylvia curruca</i>	KH, WF, [DH]	DD, SC	C	RAM	20, 24, 45, 86
SINGING BUSHLARK <i>Mirafra cantillans</i>					64
INDIAN BUSHLARK <i>Mirafra erythroptera</i>	KH	SC	U	RL	64, 74
RUFIOUS-WINGED BUSHLARK <i>Mirafra assamica</i>					32
ASHY-CROWNED SPARROW LARK <i>Eremopterix grisea</i>	AB	SC	U	RL	6, 7, 20, 45, 64, 85, 86
SAND LARK <i>Calandrella raytal</i>	KH	SC	U	RO	74
CRESTED LARK <i>Galerida cristata</i>	NF	SC	F	RO	20, 45, 64, 85, 86
EURASIAN SKYLARK <i>Alauda arvensis</i>					20, 64, 86
ORIENTAL SKYLARK <i>Alauda gulgula</i>	KH	SC	R	RO	6, 20, 45, 86
THICK-BILLED FLOWERPECKER <i>Dicaeum agile</i>	NF, TI, [DH, MO]	MD	F	RO	20, 45, 64, 85, 86
PALE-BILLED FLOWERPECKER <i>Dicaeum erythrorhynchos</i>	NF	MD	F	RL	20, 45, 64
FIRE-BREADED FLOWERPECKER <i>Dicaeum ignipectus</i>	NF, [DH]	MD	F	RAM	16, 20, 45, 78, 82, 86
PURPLE SUNBIRD <i>Nectarinia asiatica</i>	UB	DD, MD, SP	C	RL	6, 16, 20, 45, 64, 66, 79, 85, 86
MRS GOULD'S SUNBIRD <i>Aethopyga gouldiae</i>	MU, NF, TV	MD, MT, SP	U	RAM	16, 44, 45, 64
GREEN-TAILED SUNBIRD <i>Aethopyga nipalensis</i>					8, 16
CRIMSON SUNBIRD <i>Aethopyga siparaja</i>	NF, [MO]	MD	F	RL	3, 6, 16, 20, 45, 64, 67, 78, 82, 86
FIRE-TAILED SUNBIRD <i>Aethopyga ignicauda</i>	NF, [DA]	MD, MT	U	RAM	16, 53, 64, 74, 86
HOUSE SPARROW <i>Passer domesticus</i>	UB	DD, HB, MD, SC	C	RL	6, 10, 16, 18, 20, 43, 45, 64, 78, 79, 82, 85, 86
RUSSET SPARROW <i>Passer rutilans</i>	CH, KH, [DA]	HB, MT, SC	F	RAM	10, 16, 43, 44, 45, 64, 78, 82, 86
[EURASIAN TREE SPARROW <i>Passer montanus</i>	DA	HB, SC	R	RU]	
CHESTNUT-SHOULDERED PETRONIA <i>Petronia xanthocollis</i>	KH, NF, [DH, MO]	DD, MD, SP	F	RL	16, 20, 28, 45, 64, 85, 86
FOREST WAGTAIL <i>Dendronanthus indicus</i>					18
WHITE WAGTAIL <i>Motacilla alba</i>	AB, KH, NF, SA, SS, TK, [DH, ML]	AQ, R, SC	C	WM	16, 18, 20, 45, 64, 78, 85, 86
WHITE-BROWED WAGTAIL <i>Motacilla maderaspatensis</i>	AB, KH, NF, SA, SS, TK, [DH, ML]	AQ, R, SC	C	RL	6, 18, 44, 45, 54, 64, 80, 85, 86
CITRINE WAGTAIL <i>Motacilla citreola</i>	KH	AQ, R, SC	R	WM	18, 85, 86
YELLOW WAGTAIL <i>Motacilla flava</i>	KH, NF, TK	AQ, R, SC	U	WM	18, 20, 45, 64, 85, 86
GREY WAGTAIL <i>Motacilla cinerea</i>	MU, NF, SS, [DH]	AQ, R, SC	F	RAM	16, 18, 20, 24, 45, 54, 64, 79, 85, 86
PADDYFIELD PIPIT <i>Anthus rufulus</i>	KH, NF	SC	F	RO	6, 20, 45, 64, 86
LONG-BILLED PIPIT <i>Anthus similis</i>					16
TREE PIPIT <i>Anthus trivialis</i>	NF, [DH]	DD, MD	F	WM	20, 45, 86
OLIVE-BACKED PIPIT <i>Anthus hodgsoni</i>	KP, NF	MD	F	RAM	6, 20, 45, 64, 86



	Locations	Habitat	Abundance	Status	Previous records
ROSY PIPIT <i>Anthus roseatus</i>	NF	SC	U	RAM	64, 74, 86
UPLAND PIPIT <i>Anthus sylvanus</i>					10, 16, 64
ALPINE ACCENTOR <i>Prunella collaris</i>					16
ALTAI ACCENTOR <i>Prunella himalayana</i>					16
RUFIOUS-BREASTED ACCENTOR <i>Prunella strophciata</i>					16, 64
BLACK-THROATED ACCENTOR <i>Prunella atrogularis</i>					16, 64, 86
BLACK-BREASTED WEAVER <i>Ploceus benghalensis</i>					6, 64
[STREAKED WEAVER <i>Ploceus manyar</i>	MO	SC	F	RL]	
BAYA WEAVER <i>Ploceus philippinus</i>	AB, NF, TG, [DH, MO]	SC	F	RL	6, 18, 20, 24, 45, 64, 85, 86
RED AVADAVAT <i>Amandava amandava</i>	AB, KH	SC	U	RL	6, 44, 45, 64, 75, 76, 86
INDIAN SILVERBILL <i>Lonchura malabarica</i>	AB, KH	SC	F	RL	6, 20, 45, 64, 86
SCALY-BREASTED MUNIA <i>Lonchura punctulata</i>	NF, TI, [DH, MO]	MD, SC	F	RL	6, 16, 20, 45, 64, 85, 86
FIRE-FRONTED SERIN <i>Serinus pusillus</i>	NF	SC	R	RAM	16, 85, 86
YELLOW-BREASTED GREENFINCH <i>Carduelis spinoides</i>	CH, NF	MT, SC	F	RAM	6, 16, 20, 45, 64, 86
EUROPEAN GOLDFINCH <i>Carduelis carduelis</i>	KH	SC	U	RAM	6, 16, 20, 45, 64, 78, 86
PLAIN MOUNTAIN FINCH <i>Leucosticte nemoricola</i>					16, 64
SPECTACLED FINCH <i>Callacanthis burtoni</i>	MU	MT	U	RU	16
DARK-BREASTED ROSEFINCH <i>Carpodacus nipalensis</i>	[DA	MT	F	RAM]	16, 64
COMMON ROSEFINCH <i>Carpodacus erythrinus</i>	CH, KP, NF	SC	F	RAM	16, 20, 45, 64, 78, 79, 85, 86
PINK-BROWED ROSEFINCH <i>Carpodacus rodochrous</i>	CH	MT	U	RAM	16, 64
SCARLET FINCH <i>Haematospiza sipahi</i>					16
RED CROSSBILL <i>Loxia curvirostra</i>					16
BROWN BULLFINCH <i>Pyrhula nipalensis</i>					16, 60, 64
RED-HEADED BULLFINCH <i>Pyrhula erythrocephala</i>	CH, [DA]	MT, SA	U	RU	16, 64
BLACK-AND-YELLOW' GROSBEAK <i>Mycerobas icterioides</i>					6, 16, 64
COLLARED GROSBEAK <i>Mycerobas affinis</i>	[DA	MT	R	RU]	16, 64
SPOT-WINGED GROSBEAK <i>Mycerobas melanozanthos</i>					16, 43, 64
CRESTED BUNTING <i>Melophus lathamii</i>	CH, KH, MU, [ML]	R, Sc	F	RU	6, 20, 43, 45, 64, 78, 85, 86
ROCK BUNTING <i>Emberiza cia</i>	CH	R, SC	F	RAM	6, 16, 20, 43, 45, 64, 86
WHITE-CAPPED BUNTING <i>Emberiza stewarti</i>	KH, [DA]	R, Sc	F	RAM	20, 45, 64, 86
CHESTNUT-EARED BUNTING <i>Emberiza fucata</i>	CH, KH	R, Sc	F	RAM	20, 45, 64, 81
BLACK-HEADED BUNTING <i>Emberiza melanocephala</i>					20, 45, 86